

TEST REPORT

Report Number: 15496249-E21V1

Applicant : APPLE, INC
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3257

Brand : APPLE

FCC ID : BCG-E8950A

IC : 579C-E8950A

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 2, PART 22H, PART 24E, PART 27,
and PART 25
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-132 ISSUE 4,
RSS-133 ISSUE 7, RSS-139 ISSUE 4

Date Of Issue:

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Revision History

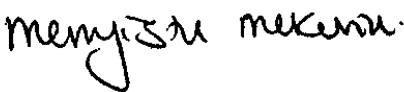
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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3257	
Brand	APPLE	
FCC ID	BCG-E8950A	
IC	579C-E8950A	
EUT Description	SMARTPHONE	
Serial Number	Radiated: HM7J7JQX6J, LFJJGD2VPV, GMHVQR27VP Conducted: HVHHH5000AY000122J, HVHHH50002D0000YE7 HVHHD20009U0000YE7	
Sample Receipt Date	2025-02-28	
Date Tested	2025-03-31 to 2025-07-25	
Applicable Standards	FCC 47 CFR PART 2, PART 22H, PART 24E, PART 27, PART 25 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-132 ISSUE 4, RSS-133 ISSUE 7, RSS-139 ISSUE 4	
Test Results	COMPLIES	
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc will constitute fraud and shall nullify the document.		
Approved & Released By:	Reviewed By:	Prepared By:
		
Mengistu Mekuria Staff Laboratory Engineer UL Verification Services Inc.	Eric Ting Senior Test Engineer UL Verification Services Inc	Carlos D. Caudana Laboratory Engineer UL Verification Services Inc

2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.4.)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
RF Conducted Output Power	2.1046	-	Complies	
Effective Radiated Power	22.913 (a)(5)	RSS132§5.4	Complies	
Equivalent Isotropic Radiated power	24.232 (c), 27.50 (d) (4)	RSS133§5.5 & SRSP-510, 5.1.2 RSS139§5.5	Complies	
Occupied Bandwidth	2.1049	RSS132 RSS133 RSS139 RSS-GEN§6.7	Complies	
Band Edge and Emission Mask	2.1051, 22.917 (a), 24.238 (a), 27.53 (h)	RSS132§5.5 RSS133§5.6 RSS139§5.6	Complies	
Out of Band Emissions	2.1051, 22.917 (a), 24.238 (a), 27.53 (h)	RSS132§5.5 RSS133§5.6 RSS139§5.6	Complies	
Frequency Stability	2.1055, 22.355, 24.235, 27.54	RSS132§5.3 RSS133§5.4 RSS139§5.4	Complies	
Peak-to-Average Ratio	22.913 (d), 24.232 (d), 27.50 (d) (5)	RSS132§5.4 RSS133§5.5 RSS139§5.5	Complies	
Field Strength of Spurious Radiation	2.1053, 22.917 (a), 24.238 (a), 27.53 (h)	RSS132§5.5 RSS133§5.6 RSS139§5.6	Complies	

SUPPLEMENTAL COVERAGE FROM SPACE (SCS)

Under section § 25.109 (f) of the FCC rules Space and SCS earth stations providing SCS are subject to technical rules in parts 2, 22, 24, and 27 of this chapter based on the operating frequency band. Section § 25.204 (g) specifies that earth stations providing SCS pursuant to §§ 25.125 and 25.115 shall comply with the power requirements and out-of-band emission limits corresponding to devices operating in parts 22, 24, or 27 of this chapter (e.g., §§ 22.913, 24.232, 27.50), as required for their operating frequencies. We have clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.

The table below identifies the SCS frequencies available for use and, for each band, the applicable FCC Part 22, 24, 27, and 90R technical requirements, the air interfaces supported by the device for SCS use.

The bands available for SCS and the bands supported by the devices in the scope of this report are:

Band	Frequency		Part 22/24/27/90 Rule parts	3GPP Band	Supported	Applicable to This Report
	DL (MHz)	UL (MHz)				
600 MHz:	614-652	663-698	27.5 (c) 27.50 (c) 27.53 (g)	71/n71	Yes	No
700 MHz:	729 – 746	699 – 716	27.5 (c) 27.50 (c) 27.53 (g)	12/n12 17	Yes	No
	746 – 756	777 – 787	27.5 (b) 27.50 (b) 27.53 (f)	13/n13	Yes	No
	758-769	788-799	90R ^{Note 1}	14 / n14	Yes	No
	805-806 MHz				No	
800 MHz:	869-894	824-849	22H	WCDMA 5 5/n5 26/N26	Yes	Yes
Broadband PCS:	1930-1995	1850-1915	24E 24E	WCDMA 2 2/n2 25/n25	Yes	Yes
Note 1: Clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.						

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following.

FCC published lists of [measurement procedures](#) for compliance testing.

ISED published lists of [normative test standards and acceptable alternatives procedures](#).

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 22H, Part 24E, Part 27 and Part 25
- [FCC KDB 971168 D01](#): Power Meas License Digital Systems (ISED acceptable alternative procedure)
- [FCC KDB 971168 D02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01](#): Determining ERP and EIRP
- [FCC KDB 273109 D02](#): Part 25 SCS and CMRS-Bands
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-132 Issue 4, RSS-133 Issue 7, RSS-139 Issue 4

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
RF Power Measurement Direct Method Using Power Meter	0.450 dB Ave. 1.300 dB Peak
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

$$\text{ERP/EIRP} = P_{\text{Meas}} + G_T - L_C$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

The EUT has different power levels for head use configuration and body use configuration. The below tables contain the highest of all configurations average conducted and peak EIRP/ERP output powers as follows:

GSM MODES

Part 22 / RSS 132 (ANT3)									
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	FCC Limit (W)	ISED Limit (W)	ERP		99% BW (kHz)	Emission Designator
						(dBm)	(W)		
824.2-848.8	GPRS	33.49	-5.00	7.0	7.0	26.34	0.431	243.49	243KGXW
	EGPRS	28.00				20.85	0.122	247.97	248KG7W
Part 24 / RSS 133 (ANT4)									
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	Limit (W)	EIRP		99% BW (kHz)	Emission Designator	
					(dBm)	(W)			
1850.2-1909.8	GPRS	29.05	0.70	2.0	29.75	0.944	242.93	243KGXW	
	EGPRS	24.00			24.70	0.295	247.37	247KG7W	

WCDMA MODE

Part 22 / RSS 132 Band 5 (ANT3)										
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	FCC Limit (W)	ISED Limit (W)	ERP		99% BW (MHz)	99% BW (kHz)	Emission Designator
						(dBm)	(W)			
826.4-846.6	REL 99	25.70	-5.00	7.0	7.0	18.55	0.072	4.141	4140.6	4M14F9W
	HSDPA	24.68				17.53	0.057	4.146	4145.6	4M15F9W
Part 24 / RSS 133 Band 2 (ANT4)										
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	Limit (W)	EIRP		99% BW (MHz)	99% BW (kHz)	Emission Designator	
					(dBm)	(W)				
1852.4-1907.6	REL 99	24.70	0.70	2.0	25.40	0.347	4.158	4158.0	4M16F9W	
	HSDPA	23.79			24.49	0.281	4.156	4156.4	4M16F9W	
Part 27 / RSS 139 Band 4 (ANT4)										
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	Limit (W)	EIRP		99% BW (MHz)	99% BW (kHz)	Emission Designator	
					(dBm)	(W)				
1712.4-1752.6	REL 99	24.70	0.10	1.0	24.80	0.302	4.156	4156.0	4M16F9W	
	HSDPA	23.71			23.81	0.240	4.166	4166.3	4M17F9W	

6.1. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.08.00.

6.2. MAXIMUM ANTENNA GAIN AND MAXIMUM ALLOWED OUTPUT POWER

The IFA antenna(s) gain/ allowed output power, as provided by the manufacturer' are as follows:

Bands	Frequency Range (MHz)	Antenna	Gain (dBi)	Max Allowed Conducted Output Power (dBm)	ERP/EIRP (dBm)
GSM850	824 - 849	ANT3	-5.00	33.5	26.35
		ANT4			
		ANT2	-5.30	32.5	25.05
		ANT1			
GSM1900	1850 - 1910	ANT3	-2.30	32.0	29.70
		ANT4	0.70	29.5	30.20
		ANT2	-1.40	31.0	29.60
		ANT1	-4.10	29.0	24.90
WCDMA 5	824 - 849	ANT3	-5.00	25.7	18.55
		ANT4			
		ANT2	-5.30	25.2	17.75
		ANT1			
WCDMA 2	1850 - 1910	ANT3	-2.30	25.7	23.40
		ANT4	0.70	24.7	25.40
		ANT2	-1.40	25.7	24.30
		ANT1	-4.10	24.2	20.10
WCDMA 4	1710 - 1755	ANT3	-2.40	25.7	23.30
		ANT4	0.10	24.7	24.80
		ANT2	-2.40	25.7	23.30
		ANT1	-4.60	24.2	19.60

6.3. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated in three orthogonal orientations X/Y/Z on all available antennas to determine the worst-case orientation. The following table exhibits the worst-case orientation for different frequency bands. The full tests of the EUT have made upon the orientations shown in the table below.

Frequency Bands (MHz)	ANT3	ANT4	ANT2	ANT1
824 – 849	X	N/A	Y	N/A
1710 – 1915	X	X	X	X

Based on average conducted output power measurement investigations. The worst-case is Ant3 with the highest power. Therefore, Ant3 was used to perform all conducted tests.

The worst-case scenario for all measurements as followed:

- GSM GPRS
- GSM EGPRS
- WCDMA REL 99
- WCDMA HSDPA

Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 1GHz and above 18GHz.

For simultaneous transmission of multiple channels in the 2.4GHz/5GHz WLAN, UWB, and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies, and widest operation bandwidths. No noticeable new emission was found.

6.4. DESCRIPTION OF TEST SETUP

Refer to Appendix A for description of test setup.

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	85723	2026-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2026-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	200897	2026-04-30
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	2026-01-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2026-02-28
RF Filter Box, 1-18GHz, 17 Port	UL-FR1	RATS 2	236726	2025-10-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	80403	2026-08-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	171863	2026-11-30
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224490	2026-05-06
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2025-07-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2025-07-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262735	2026-03-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	231912	2026-04-30
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	172353	2025-08-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	220194	2026-04-29
Antenna, Horn 26.5-40GHz	A.R.A.	MWH-2640/B	81105	2025-08-31
Link File, RF Amplifier Assembly, 26.5-40GHz, 65dB Gain	Amplical	AMP26G40-65	220193	2026-04-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	259079	2026-02-28
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262734	2026-04-30
Wideband Communication Call Box	Rohde & Schwarz	CMW500	230298	2026-02-28
Wideband Communication Call Box	Rohde & Schwarz	CMW500	85943	2026-02-28
Wideband Communication Call Box	Rohde & Schwarz	CMW500	262742	2027-02-11
Wideband Communication Call Box	Rohde & Schwarz	CMW500	262741	2027-02-11
Conducted Switch Box	N/A	CSB	221008	2026-04-30
Conducted Switch Box	N/A	CSB	262354	2026-04-30
Filter, BRF 3400-3800MHz, 18GHz max	Micro-Tronics	BRM50711	217364	2025-09-30
Filter, BRF 2305-2315	Micro-Tronics	BRC20553	224186	2026-06-29
Directional Coupler	KRYTAR	152610	254457	2025-10-31
Directional Coupler	KRYTAR	101040010K	254458	2025-10-30
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90718	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257704	2026-03-31
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	89097	2025-10-31
UL AUTOMATION SOFTWARE				
Conducted Software	UL	CLT	Ver.2023.3.3.0 &.2024.3.20.0	
Conducted Software	UL	Power Measurement	Ver 2023.08.14	
Conducted Software	UL	Antenna Port	Ver.2022.8.16	
Conducted Software	UL	Station Tool	Ver.2025.4.8, v2025.5.3, v2025.6.0, v2025.6.1, v2025.7.0	
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	

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8. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All bands conducted average power is obtained from the base station simulator.

The following tests were conducted according to the test requirements outlined in ANSI C63.26 Section 5.2.

RESULT

The EUT has different power levels for head use configuration and body use configuration. All measurements are made with the device operating at the highest average conducted output powers.

8.1. GSM

8.1.1. GSM 850

Test Engineer ID:	27342	Test Date:	2025-04-22
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Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Conducted Average Power (dBm)	
					ANT 3	ANT 2
GPRS (GMSK)	CS1	1	128	824.2	33.49	32.38
			190	836.6	33.37	32.27
			251	848.8	33.34	32.23
		2	128	824.2	32.50	31.50
			190	836.6	32.43	31.44
			251	848.8	32.41	31.42
EGPRS (8PSK)	MCS5	1	128	824.2	28.00	27.00
			190	836.6	27.89	26.92
			251	848.8	27.90	26.91
		2	128	824.2	27.00	26.00
			190	836.6	26.99	25.95
			251	848.8	26.99	25.95

8.1.2. GSM 1900

Test Engineer ID:	27342	Test Date:	2025-04-22
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Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Conducted Average Power (dBm)			
					ANT 3	ANT 4	ANT2	ANT 1
GPRS (GMSK)	CS1	1	512	1850.2	31.87	29.05	31.00	28.42
			661	1880	31.87	28.93	30.54	29.00
			810	1909.8	31.87	28.90	30.45	28.77
		2	512	1850.2	31.00	28.50	30.00	27.77
			661	1880	31.00	28.44	29.80	28.00
			810	1909.8	30.99	28.44	29.61	27.74
EGPRS (8PSK)	MCS5	1	512	1850.2	26.94	24.00	26.00	23.47
			661	1880	26.82	23.88	25.42	24.00
			810	1909.8	26.80	23.87	25.70	23.96
		2	512	1850.2	26.00	23.00	25.00	22.43
			661	1880	25.96	22.94	24.55	23.00
			810	1909.8	25.96	22.93	24.76	22.70

8.2. WCDMA

8.2.1. WCDMA BAND 5

Test Engineer ID:	39004	Test Date:	2025-04-23
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Band	Mode		UL Ch No.	Freq. (MHz)	MPR (dB)	Conducted Average Power (dBm)	
						ANT 3	ANT 2
W-CDMA Band 5 (850MHz)	Rel 99	RMC, 12.2 kbps	4132	826.4	N/A	25.62	25.20
			4183	836.6	N/A	25.70	24.56
			4233	846.6	N/A	25.65	24.69
	HSDPA	Subtest 1	4132	826.4	0	24.61	24.27
			4183	836.6	0	24.65	24.33
			4233	846.6	0	24.64	24.35
		Subtest 2	4132	826.4	0	24.58	24.29
			4183	836.6	0	24.67	24.34
			4233	846.6	0	24.67	24.33
		Subtest 3	4132	826.4	0.5	24.08	23.80
			4183	836.6	0.5	24.12	23.83
			4233	846.6	0.5	24.13	23.86
		Subtest 4	4132	826.4	0.5	24.05	23.77
			4183	836.6	0.5	24.13	23.84
			4233	846.6	0.5	24.13	23.85
	HSPA (HSDPA & HSUPA)	Subtest 1	4132	826.4	0	24.56	24.16
			4183	836.6	0	24.67	24.24
			4233	846.6	0	24.65	24.26
		Subtest 2	4132	826.4	2	22.55	22.22
			4183	836.6	2	22.66	22.28
			4233	846.6	2	22.64	22.28
		Subtest 3	4132	826.4	1	23.55	23.22
			4183	836.6	1	23.67	23.25
			4233	846.6	1	23.63	23.29
		Subtest 4	4132	826.4	2	22.58	22.22
			4183	836.6	2	22.62	22.25
			4233	846.6	2	22.63	22.28
		Subtest 5	4132	826.4	0	24.18	23.80
			4183	836.6	0	24.28	23.90
			4233	846.6	0	24.27	23.89
	DC-HSDPA	Subtest 1	4132	826.4	0	24.59	24.24
			4183	836.6	0	24.67	24.24
			4233	846.6	0	24.68	24.29
		Subtest 2	4132	826.4	0	24.57	24.22
			4183	836.6	0	24.62	24.26
			4233	846.6	0	24.65	24.31
		Subtest 3	4132	826.4	0.5	24.07	23.68
			4183	836.6	0.5	24.13	23.75
			4233	846.6	0.5	24.15	23.80
		Subtest 4	4132	826.4	0.5	24.07	23.72
			4183	836.6	0.5	24.14	23.73
			4233	846.6	0.5	24.15	23.76

8.2.2. WCDMA BAND 2

Test Engineer ID:	39004	Test Date:	2025-04-23
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Band	Mode		UL Ch No.	Freq. (MHz)	MPR (dB)	Conducted Average Power (dBm)			
						ANT 3	ANT 4	ANT 2	ANT 1
W-CDMA Band 2 (1900MHz)	Rel 99	RMC, 12.2 kbps	9262	1852.4	N/A	25.63	24.70	25.70	24.20
			9400	1880.0	N/A	25.70	24.51	25.65	24.07
			9538	1907.6	N/A	25.70	24.54	25.62	24.05
	HSDPA	Subtest 1	9262	1852.4	0	24.78	23.70	24.71	23.08
			9400	1880.0	0	24.68	23.52	24.68	23.17
			9538	1907.6	0	24.68	23.53	24.69	23.18
		Subtest 2	9262	1852.4	0	24.81	23.69	24.70	23.15
			9400	1880.0	0	24.69	23.53	24.70	23.09
			9538	1907.6	0	24.68	23.50	24.64	23.06
		Subtest 3	9262	1852.4	0.5	24.27	23.20	24.20	22.64
			9400	1880.0	0.5	24.19	23.01	24.13	22.62
			9538	1907.6	0.5	24.17	23.02	24.13	22.62
		Subtest 4	9262	1852.4	0.5	24.26	23.20	24.17	22.69
			9400	1880.0	0.5	24.16	23.03	24.18	22.64
			9538	1907.6	0.5	24.17	23.02	24.11	22.62
	HSPA (HSDPA & HSUPA)	Subtest 1	9262	1852.4	0	24.82	23.68	24.73	23.20
			9400	1880.0	0	24.70	23.51	24.73	23.18
			9538	1907.6	0	24.71	23.49	24.62	23.13
		Subtest 2	9262	1852.4	2	22.80	21.76	22.67	21.20
			9400	1880.0	2	22.76	21.56	22.69	21.10
			9538	1907.6	2	22.73	21.58	22.67	21.10
		Subtest 3	9262	1852.4	1	23.81	22.78	23.66	22.22
			9400	1880.0	1	23.75	22.59	23.66	22.09
			9538	1907.6	1	23.78	22.58	23.59	22.10
		Subtest 4	9262	1852.4	2	22.83	21.77	22.70	21.16
			9400	1880.0	2	22.71	21.58	22.60	21.10
			9538	1907.6	2	22.69	21.58	22.56	21.04
		Subtest 5	9262	1852.4	0	24.45	23.41	24.28	22.79
			9400	1880.0	0	24.31	23.20	24.27	22.70
			9538	1907.6	0	24.37	23.21	24.22	22.72
	DC-HSDPA	Subtest 1	9262	1852.4	0	24.85	23.78	24.72	23.12
			9400	1880.0	0	24.77	23.57	24.68	23.17
			9538	1907.6	0	24.80	23.62	24.61	23.15
		Subtest 2	9262	1852.4	0	24.87	23.79	24.68	23.22
			9400	1880.0	0	24.76	23.58	24.69	23.13
			9538	1907.6	0	24.80	23.57	24.62	23.07
		Subtest 3	9262	1852.4	0.5	24.35	22.81	24.13	22.68
			9400	1880.0	0.5	24.26	22.68	24.14	22.64
			9538	1907.6	0.5	24.29	22.71	24.14	22.62
		Subtest 4	9262	1852.4	0.5	24.36	22.84	24.16	22.65
			9400	1880.0	0.5	24.27	22.69	24.14	22.66
			9538	1907.6	0.5	24.28	22.65	24.07	22.57

8.2.3. WCDMA BAND 4

Test Engineer ID:	39004	Test Date:	2025-04-23
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Band	Mode		UL Ch No.	Freq. (MHz)	MPR (dB)	Conducted Average Power (dBm)			
						ANT 3	ANT 4	ANT 2	ANT 1
W-CDMA Band 4 (1700MHz)	Rel 99	RMC, 12.2 kbps	1312	1712.4	N/A	24.70	24.65	25.56	24.20
			1413	1732.6	N/A	25.70	24.66	25.59	24.16
			1513	1752.6	N/A	24.69	24.70	25.69	24.20
	HSDPA	Subtest 1	1312	1712.4	0	23.69	23.63	24.55	23.17
			1413	1732.6	0	24.63	23.63	24.59	23.16
			1513	1752.6	0	23.69	23.71	24.66	23.24
		Subtest 2	1312	1712.4	0	23.68	23.65	24.50	23.18
			1413	1732.6	0	24.63	23.65	24.63	23.20
			1513	1752.6	0	23.67	23.70	24.67	23.23
		Subtest 3	1312	1712.4	0.5	23.24	23.14	24.05	22.65
			1413	1732.6	0.5	24.13	23.13	24.11	22.69
			1513	1752.6	0.5	23.15	23.25	24.19	22.75
		Subtest 4	1312	1712.4	0.5	23.21	23.14	24.04	22.65
			1413	1732.6	0.5	24.18	23.17	24.11	22.68
			1513	1752.6	0.5	23.19	23.23	24.17	22.71
	HSPA (HSDPA & HSUPA)	Subtest 1	1312	1712.4	0	23.67	23.57	24.49	23.09
			1413	1732.6	0	24.61	23.60	24.56	23.08
			1513	1752.6	0	23.65	23.63	24.66	23.15
		Subtest 2	1312	1712.4	2	21.72	21.55	22.52	21.13
			1413	1732.6	2	22.60	21.56	22.59	21.16
			1513	1752.6	2	21.65	21.66	22.68	21.25
		Subtest 3	1312	1712.4	1	22.67	22.54	23.54	22.16
			1413	1732.6	1	23.65	22.57	23.63	22.15
			1513	1752.6	1	22.67	22.65	23.67	22.24
		Subtest 4	1312	1712.4	2	21.65	21.56	22.56	21.13
			1413	1732.6	2	22.56	21.57	22.64	21.12
			1513	1752.6	2	21.63	21.61	22.71	21.20
		Subtest 5	1312	1712.4	0	23.27	23.17	24.20	22.74
			1413	1732.6	0	24.24	23.19	24.25	22.76
			1513	1752.6	0	23.25	23.26	24.30	22.85
	DC-HSDPA	Subtest 1	1312	1712.4	0	23.72	23.58	24.61	23.17
			1413	1732.6	0	24.66	23.60	24.66	23.17
			1513	1752.6	0	23.64	23.67	24.71	23.25
		Subtest 2	1312	1712.4	0	23.69	23.60	24.59	23.18
			1413	1732.6	0	24.69	23.57	24.66	23.14
			1513	1752.6	0	23.60	23.65	24.68	23.24
		Subtest 3	1312	1712.4	0.5	23.21	23.08	24.08	22.68
			1413	1732.6	0.5	24.17	23.09	24.14	22.67
			1513	1752.6	0.5	23.10	23.13	24.20	22.75
		Subtest 4	1312	1712.4	0.5	23.21	23.08	24.09	22.66
			1413	1732.6	0.5	24.24	23.09	24.14	22.68
			1513	1752.6	0.5	23.12	23.17	24.20	22.71

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS132; RSS133; RSS139

LIMITS

For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

RESULTS

There is no limit required, and power is the same for low, middle and high channel; therefore, only middle channel was tested.

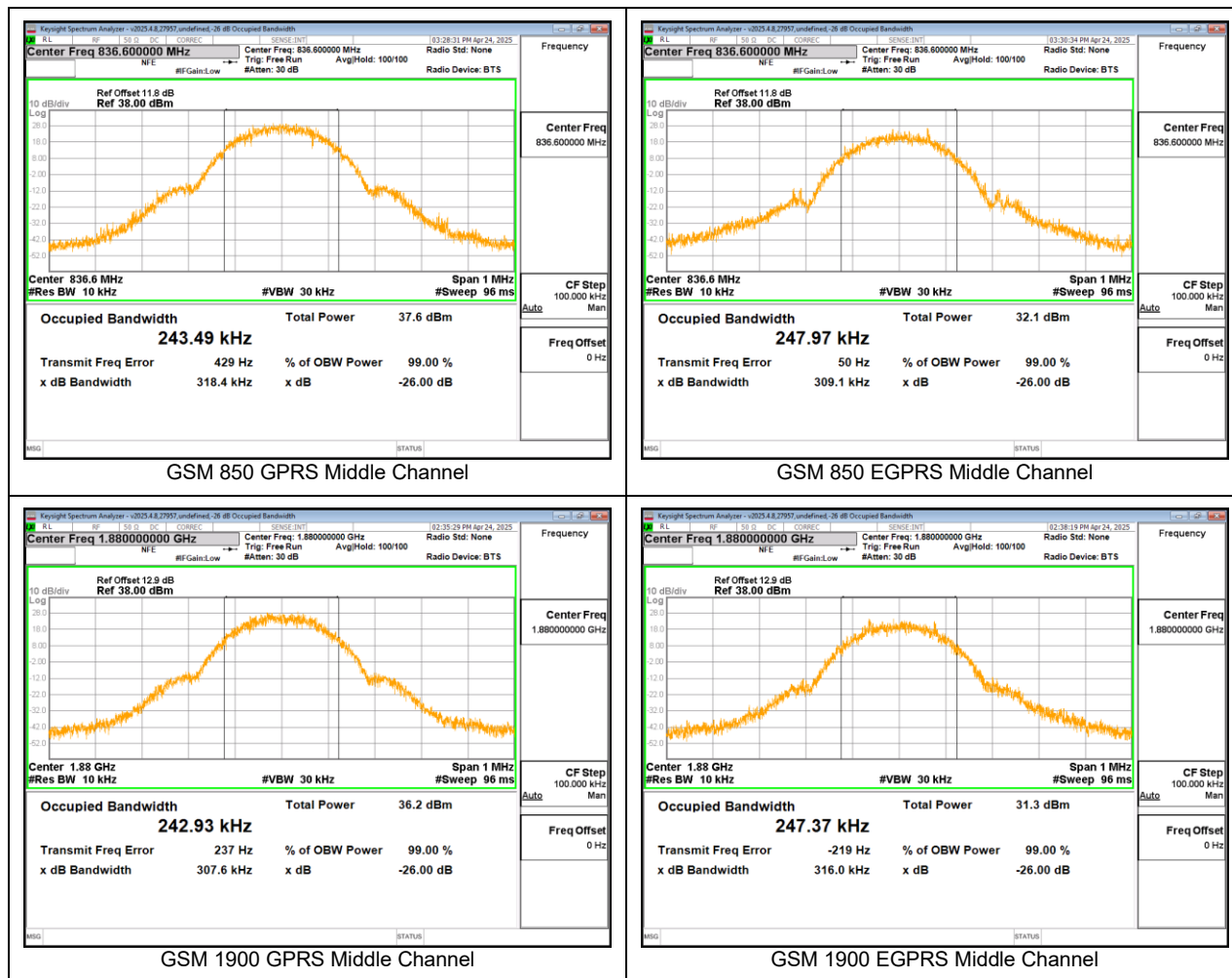
GSM

Band	Modulation	f(MHz)	99% BW (kHz)	-26dB BW (kHz)
850	GPRS	836.6	243.49	318.4
	EGPRS		247.97	309.1
1900	GPRS	1880.0	242.93	307.6
	EGPRS		247.37	316.0

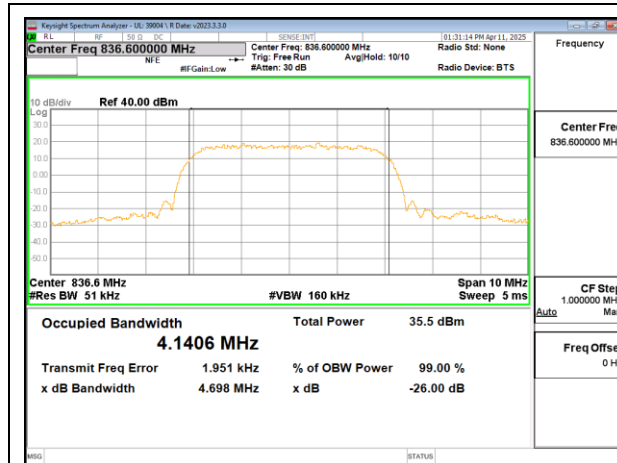
WCDMA

Band	Modulation	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
BAND 5	REL 99	836.6	4.1406	4.698
	HSDPA		4.1456	4.714
BAND 2	REL 99	1880.0	4.1580	4.704
	HSDPA		4.1564	4.703
BAND 4	REL 99	1732.6	4.1560	4.714
	HSDPA		4.1663	4.715

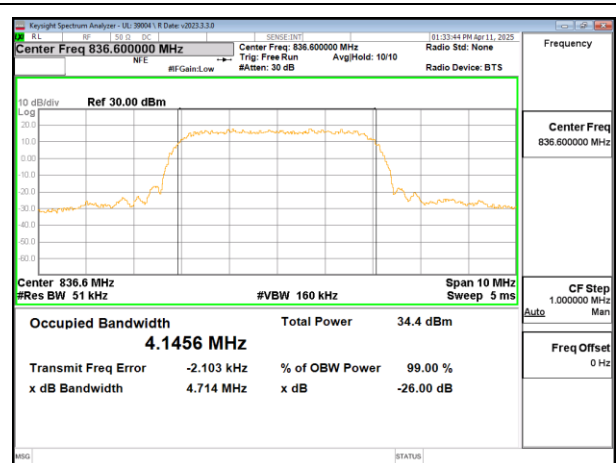
9.1.1. GSM



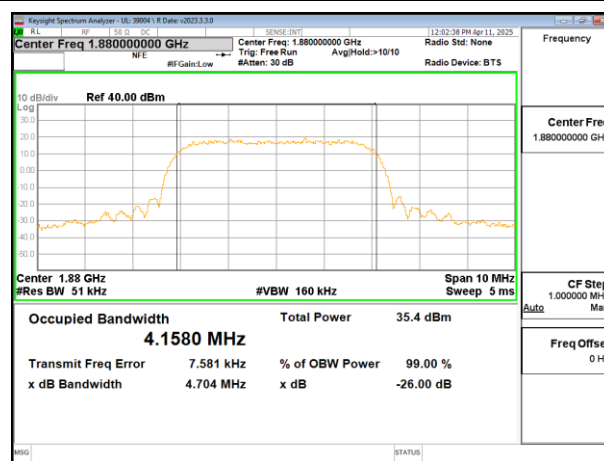
9.1.2. WCDMA



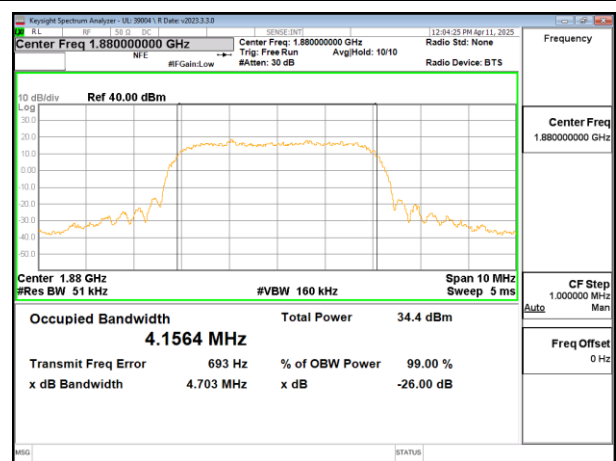
WCDMA Band 5 Rel 99 Middle Channel



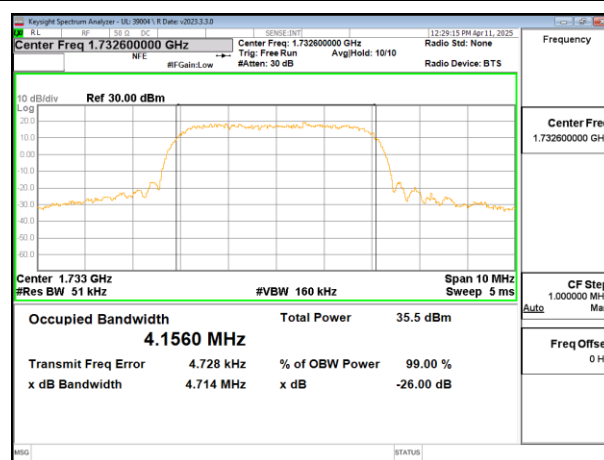
WCDMA Band 5 HSDPA Middle Channel



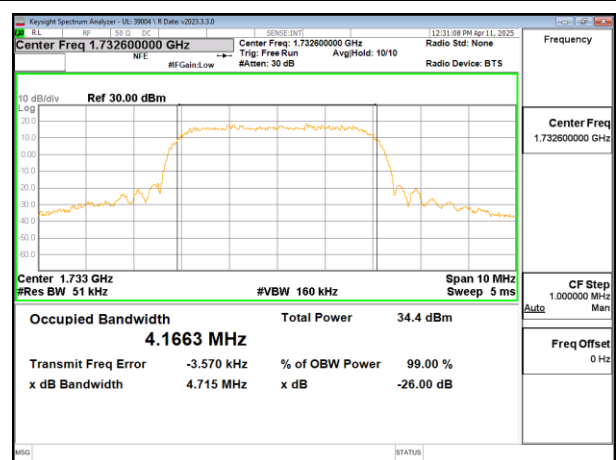
WCDMA Band 2 Rel 99 Middle Channel



WCDMA Band 2 HSDPA Middle Channel



WCDMA Band 4 Rel 99 Middle Channel



WCDMA Band 4 HSDPA Middle Channel

9.2. BAND EDGE AND EMISSION MASK

LIMITS

FCC: §22.917(a), §24.238, §27.53 (h)

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.

RSS132§5.5

Equipment shall meet the unwanted emission limits specified below:

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

RSS133§5.6

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment	
Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/(1% of OBW)
> 1	-13 dBm/MHz

RSS139§5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group)	Unwanted emission limit
≤ 1 MHz	-13 dBm/(1% of B*)
> 1 MHz	-13 dBm/MHz

*B is the frequency block or frequency block group.

TEST PROCEDURE

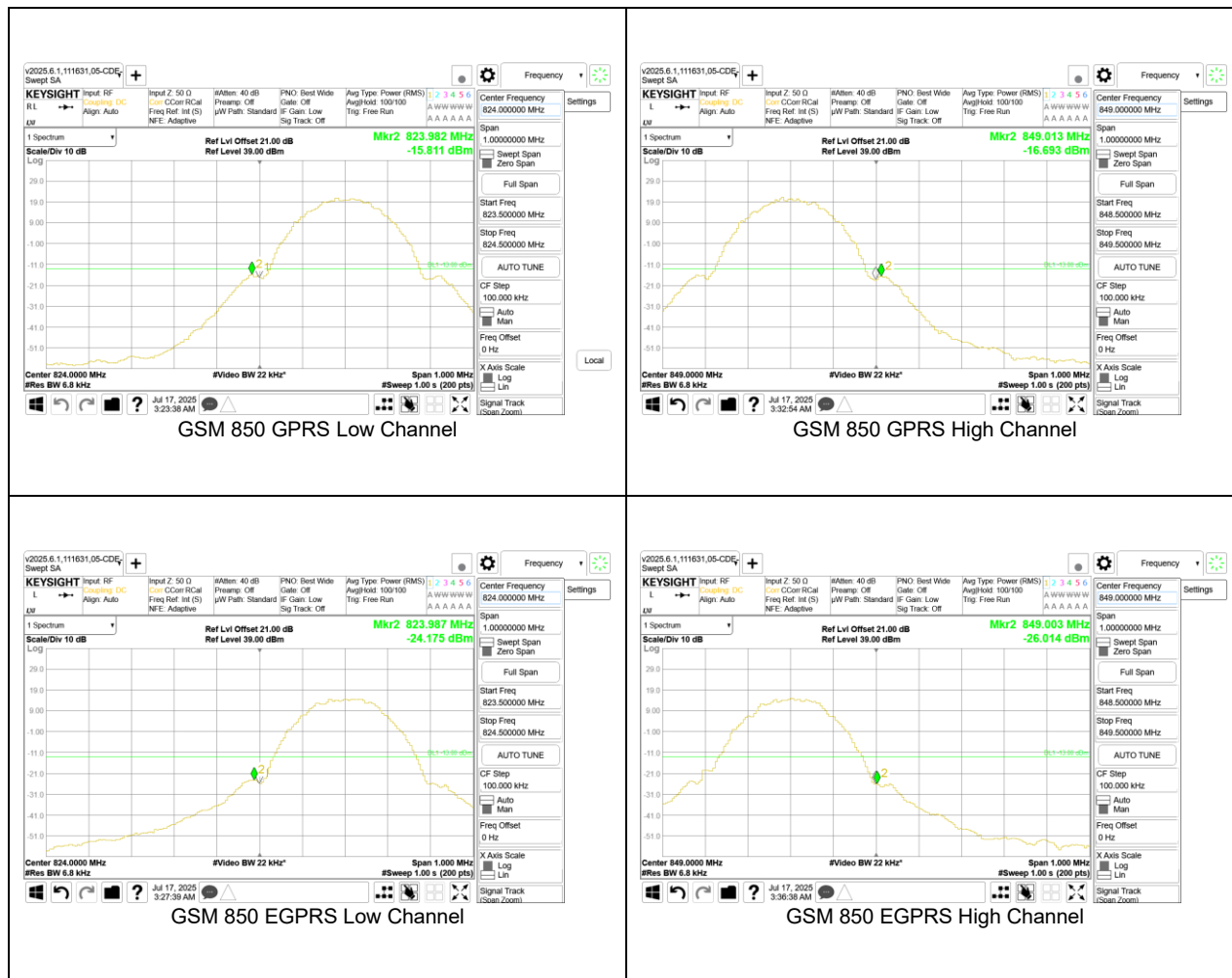
The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

- Set the spectrum analyzer span to include the block edge frequency.
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13 dBm
- Set resolution bandwidth to at least 1% of emission bandwidth.

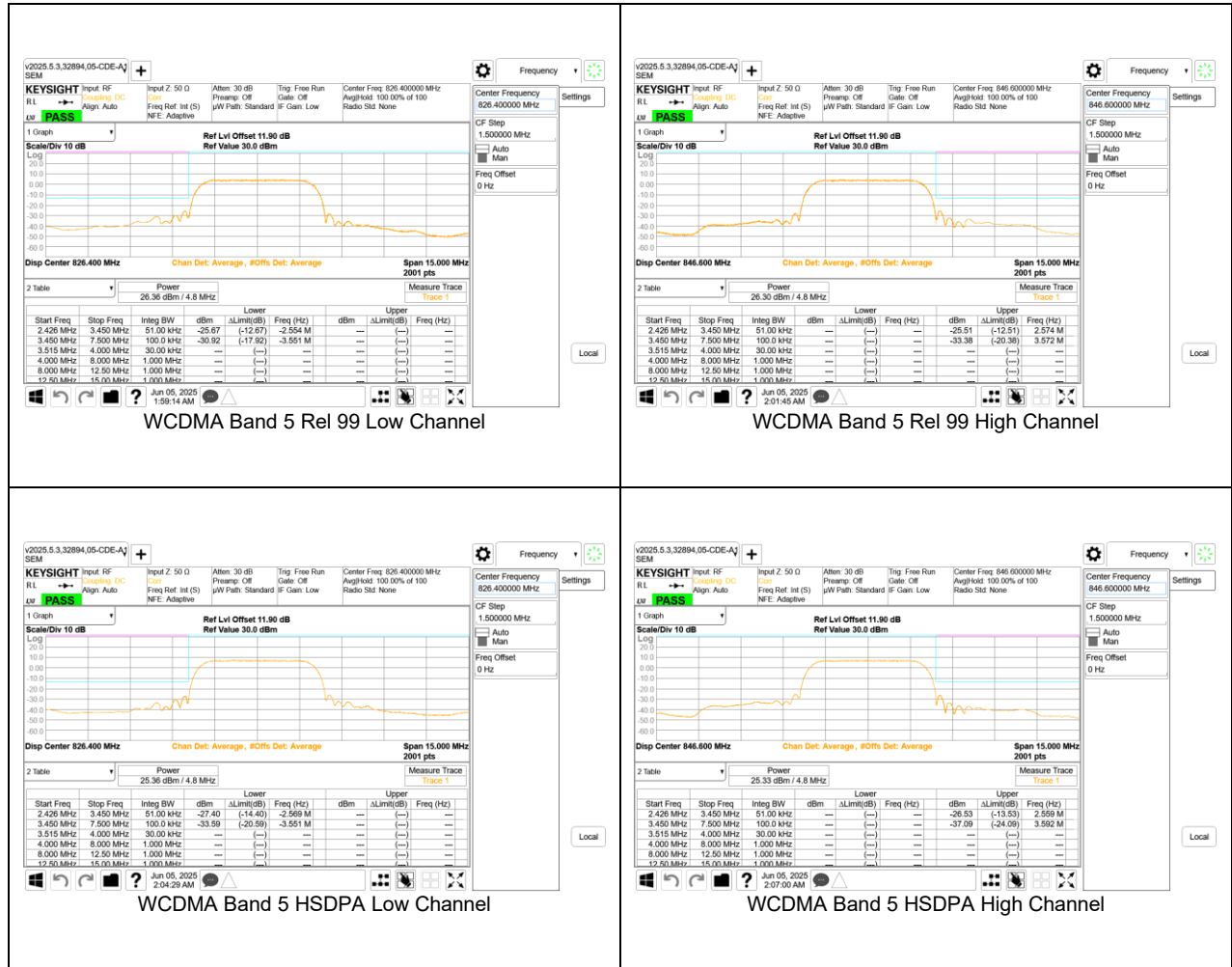
RESULTS

9.2.1. GSM 850

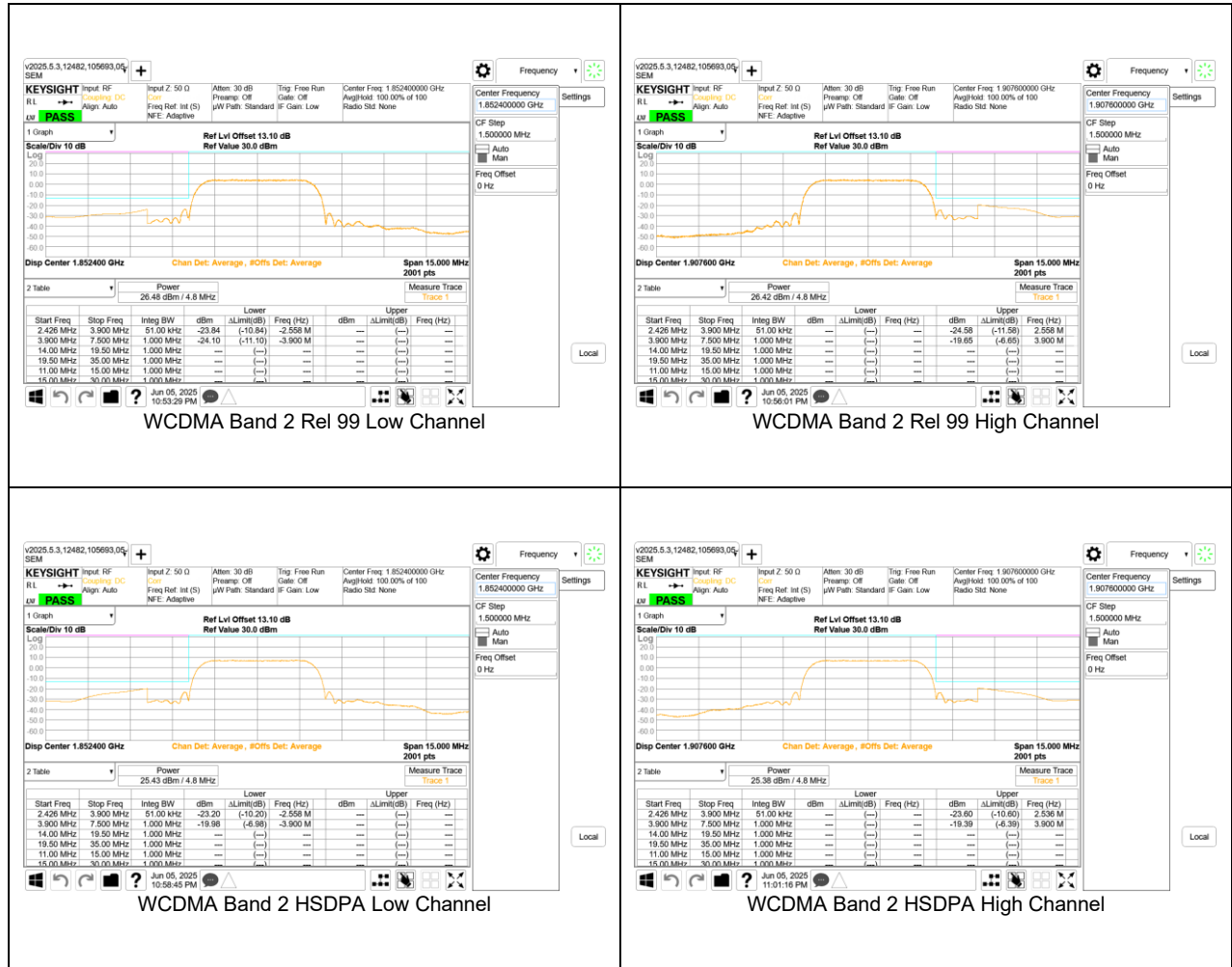


The figure displays four screenshots of the Keysight Spectrum Analyzer software interface, arranged in a 2x2 grid. Each screenshot shows a spectral plot of a GSM 1900 signal. The top row shows GSM 1900 GPRS signals, and the bottom row shows GSM 1900 EGPRS signals. The left column shows the Low Channel, and the right column shows the High Channel. Each plot displays a yellow trace of the signal spectrum, with a green horizontal line indicating the noise floor. The signal is centered at 1.910 GHz. The plots show the signal power (Mkr2) and the noise floor level (Ref Level) in dBm. The signal power is 1.849 dBm for GPRS Low Channel, 1.910 dBm for GPRS High Channel, 1.849 dBm for EGPRS Low Channel, and 1.910 dBm for EGPRS High Channel. The noise floor level is -16.420 dBm for GPRS Low Channel, -16.443 dBm for GPRS High Channel, -22.817 dBm for EGPRS Low Channel, and -23.053 dBm for EGPRS High Channel. The plots also show the signal-to-noise ratio (SNR) and the signal-to-interference-plus-noise ratio (SINR). The interface includes various controls for frequency, span, and resolution bandwidth (RBW). The frequency is set to 1.910 GHz, the span is 1.000 MHz, and the RBW is 30 kHz. The resolution bandwidth (RBW) is 30 kHz. The interface also shows the signal-to-noise ratio (SNR) and the signal-to-interference-plus-noise ratio (SINR). The SNR is 1.849 dBm / -16.420 dBm = 18.49 dB for GPRS Low Channel, 1.910 dBm / -16.443 dBm = 18.51 dB for GPRS High Channel, 1.849 dBm / -22.817 dBm = 20.36 dB for EGPRS Low Channel, and 1.910 dBm / -23.053 dBm = 20.38 dB for EGPRS High Channel. The SINR is 1.849 dBm / -16.420 dBm = 18.49 dB for GPRS Low Channel, 1.910 dBm / -16.443 dBm = 18.51 dB for GPRS High Channel, 1.849 dBm / -22.817 dBm = 20.36 dB for EGPRS Low Channel, and 1.910 dBm / -23.053 dBm = 20.38 dB for EGPRS High Channel. The interface also shows the signal-to-noise ratio (SNR) and the signal-to-interference-plus-noise ratio (SINR). The SNR is 1.849 dBm / -16.420 dBm = 18.49 dB for GPRS Low Channel, 1.910 dBm / -16.443 dBm = 18.51 dB for GPRS High Channel, 1.849 dBm / -22.817 dBm = 20.36 dB for EGPRS Low Channel, and 1.910 dBm / -23.053 dBm = 20.38 dB for EGPRS High Channel. The SINR is 1.849 dBm / -16.420 dBm = 18.49 dB for GPRS Low Channel, 1.910 dBm / -16.443 dBm = 18.51 dB for GPRS High Channel, 1.849 dBm / -22.817 dBm = 20.36 dB for EGPRS Low Channel, and 1.910 dBm / -23.053 dBm = 20.38 dB for EGPRS High Channel.

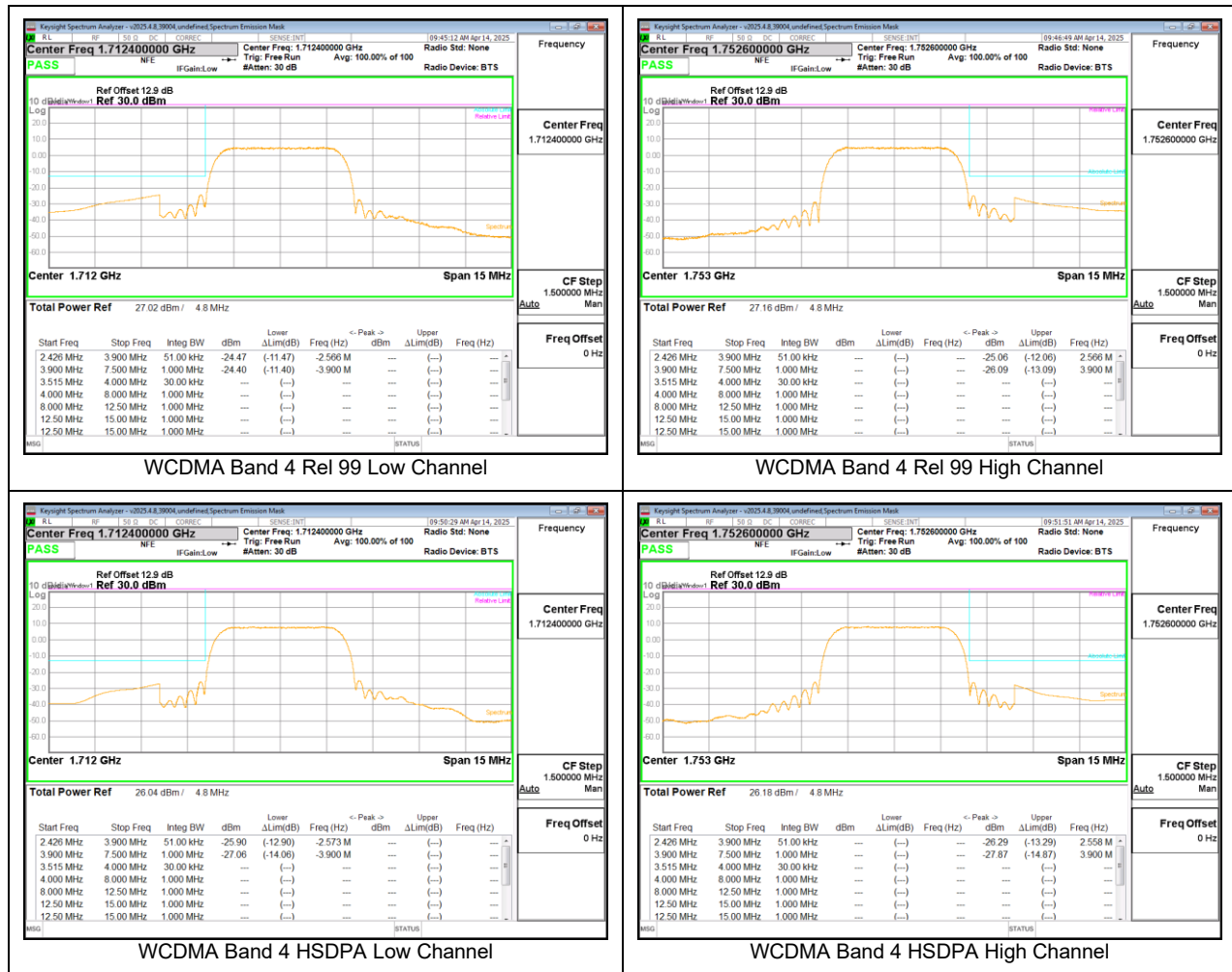
9.2.3. WCDMA BAND 5



9.2.4. WCDMA BAND 2



9.2.5. WCDMA BAND 4



9.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.917, §24.238, and §27.53
ISED: RSS132§5.5; RSS133§6.5 and RSS139§5.6

LIMITS

FCC: §22.917(a), §24.238, §27.53 (h)
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

RSS132§5.5, RSS133§5.6, RSS139§5.6
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST PROCEDURE

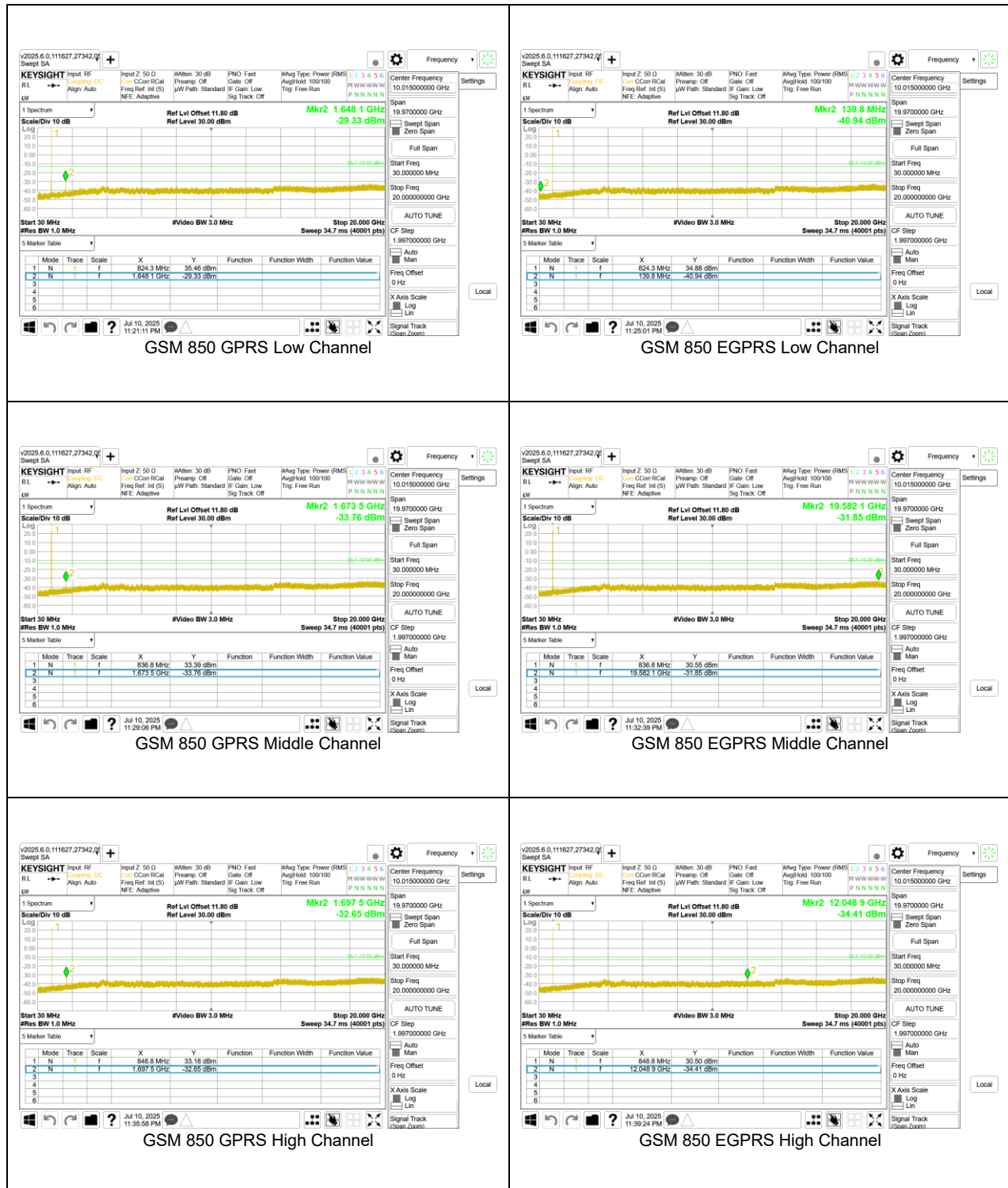
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

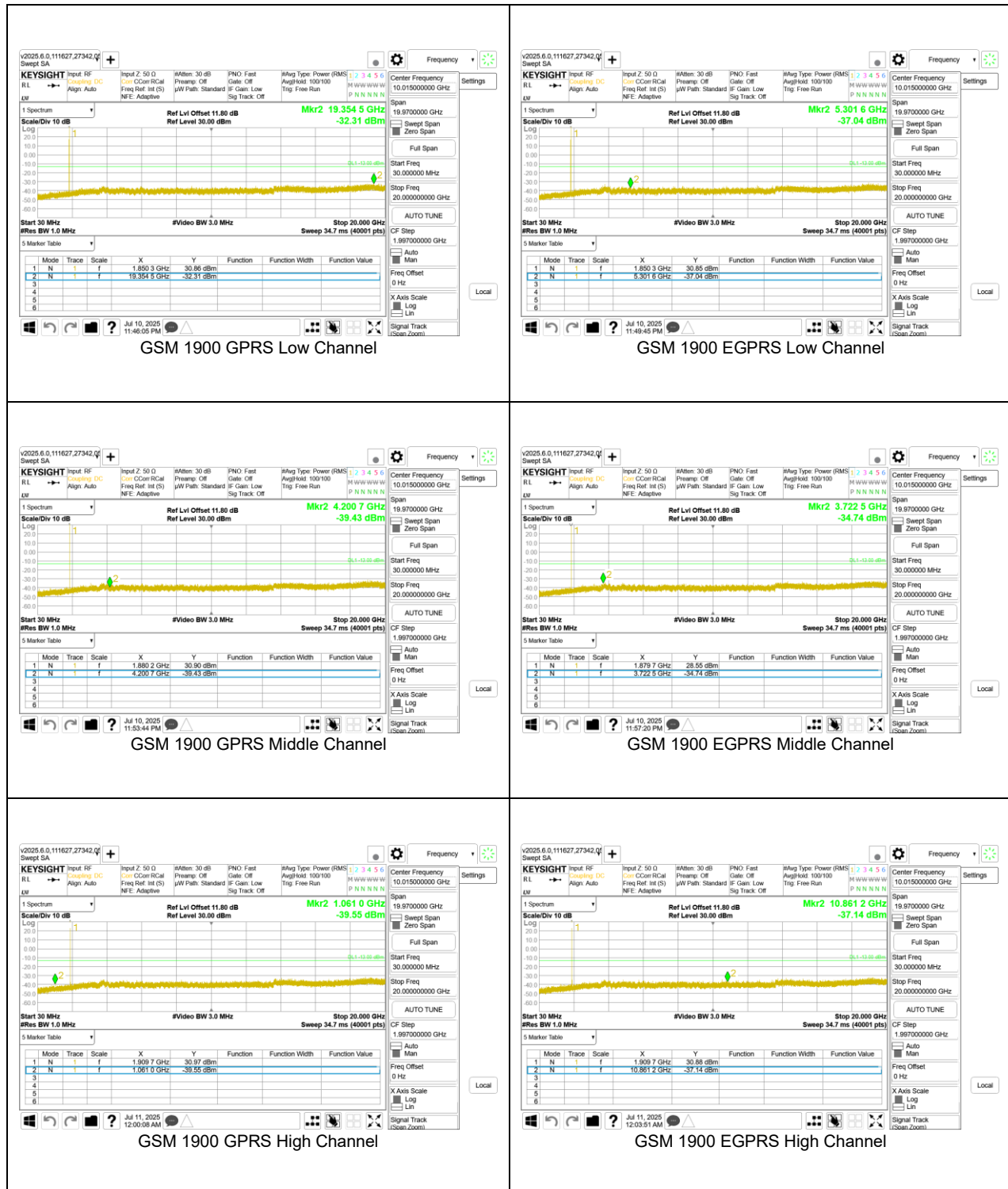
- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

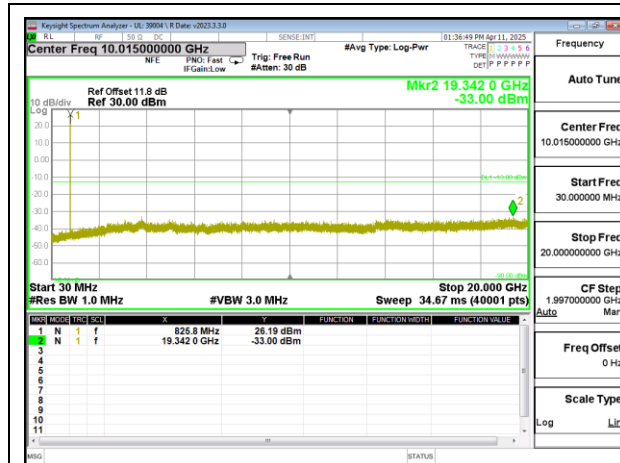
9.3.1. GSM 850



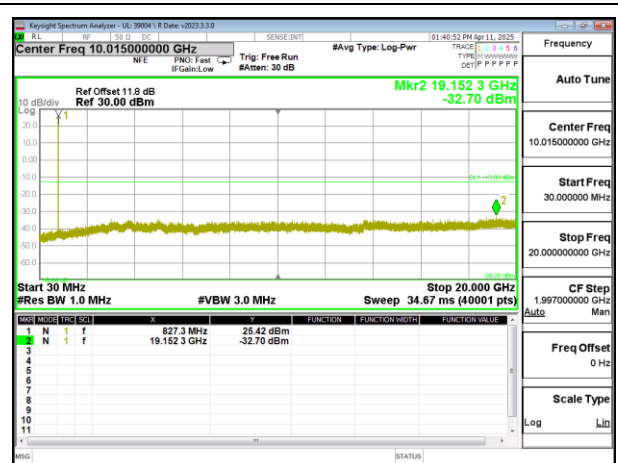
9.3.2. GSM 1900



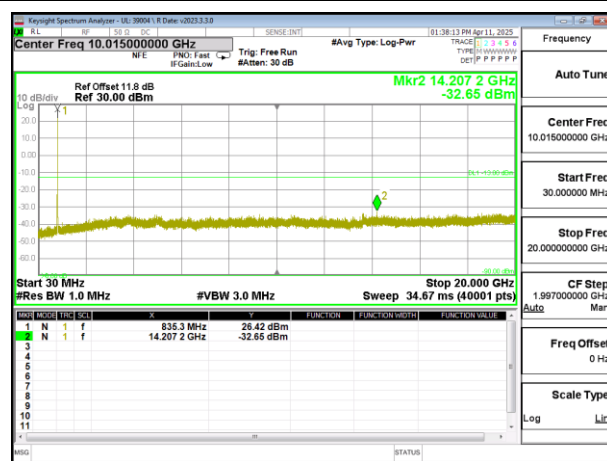
9.3.3. WCDMA BAND 5



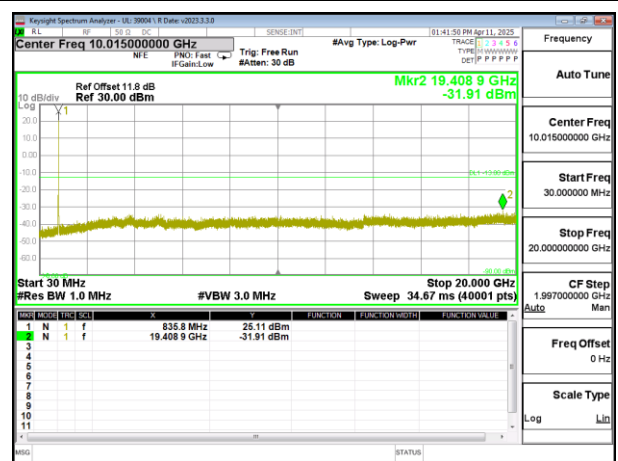
WCDMA Band 5 Rel 99 Low Channel



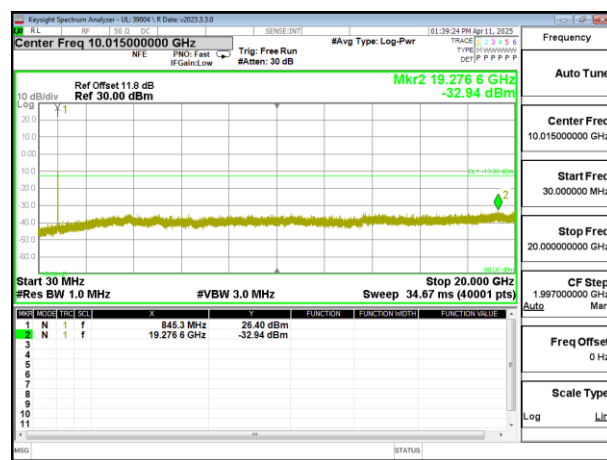
WCDMA Band 5 HSDPA Low Channel



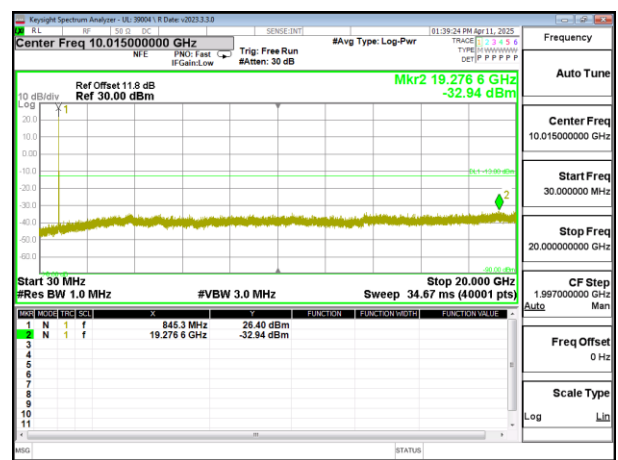
WCDMA Band 5 Rel 99 Middle Channel



WCDMA Band 5 HSDPA Middle Channel

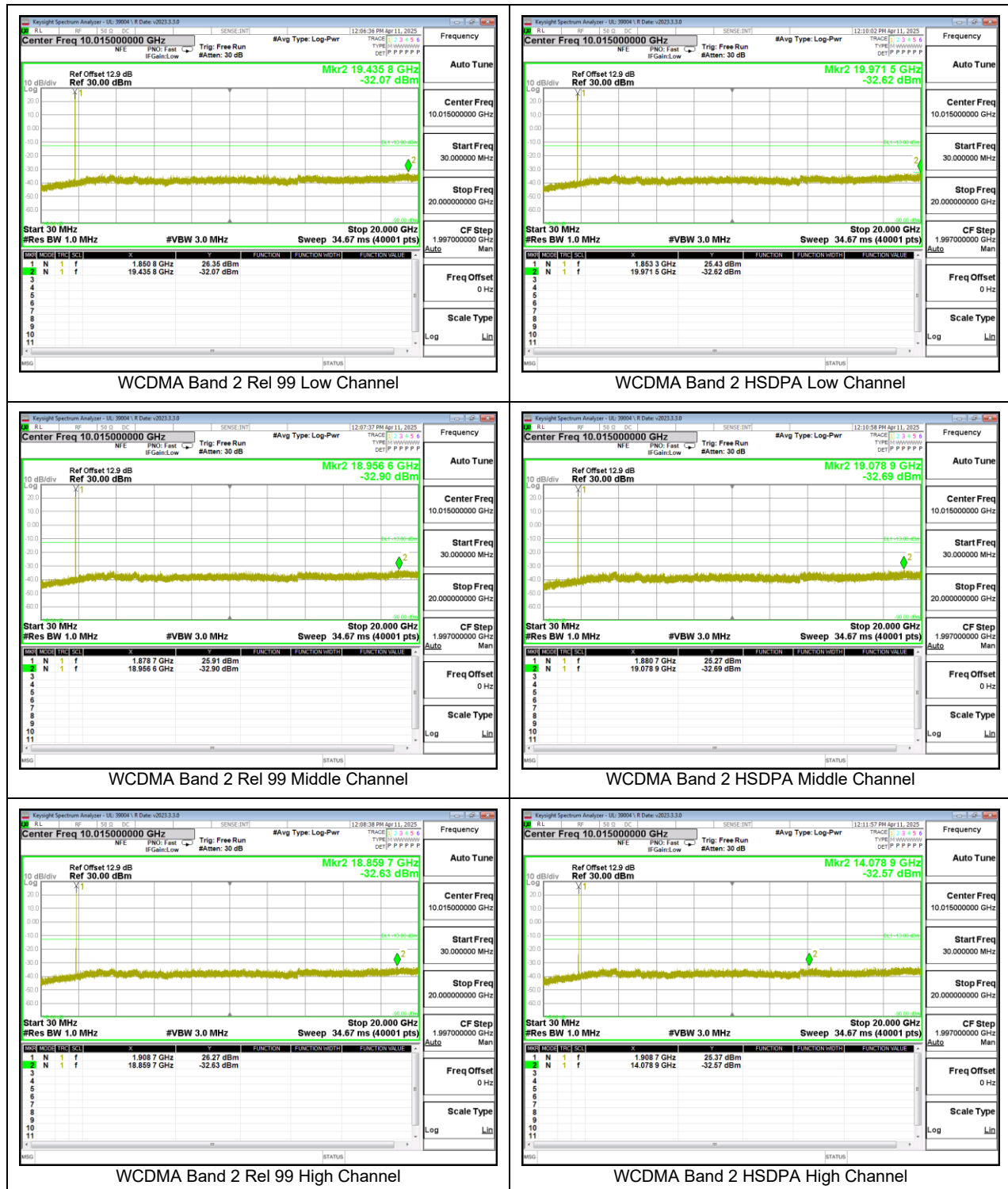


WCDMA Band 5 Rel 99 High Channel



WCDMA Band 5 HSDPA High Channel

9.3.4. WCDMA BAND 2



9.3.5. WCDMA BAND 4



9.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, and §27.54
ISED: RSS132§5.3; RSS133§5.4 and RSS139§5.4

LIMITS

FCC §22.355

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC §24.235 & §27.54

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

RSS132§5.3

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within each of the sub-bands when tested at the temperature and supply voltage variations specified in RSS-Gen.

RSS133§5.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block or frequency block group when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS139§5.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block or frequency block group when tested to the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to $+50^{\circ}\text{C}$
- Voltage = (85% - 115%)

Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
End Voltage, 3.2VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

9.4.1. GSM

Test Engineer ID:	27342	Test Date:	2025-05-06
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GPRS 850

Band	850	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		824	849		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Temperature	Voltage					
Normal (20°C)	Normal	824.0445	848.9487			
Extreme (50°C)		824.0445	848.9487	6.5	0.008	Yes
Extreme (40°C)		824.0445	848.9487	8.5	0.010	Yes
Extreme (30°C)		824.0445	848.9487	8.8	0.011	Yes
Extreme (10°C)		824.0445	848.9487	6.3	0.007	Yes
Extreme (0°C)		824.0445	848.9487	7.4	0.009	Yes
Extreme (-10°C)		824.0445	848.9487	6.1	0.007	Yes
Extreme (-20°C)		824.0445	848.9487	8.6	0.010	Yes
Extreme (-30°C)		824.0445	848.9487	5.8	0.007	Yes
20°C	15%	824.0445	848.9487	5.3	0.006	Yes
	-15%	824.0445	848.9487	5.8	0.007	Yes
	End Point Voltage	824.0445	848.9487	9.1	0.011	Yes

GPRS 1900

Band	1900	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1850	1910			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	1850.0426	1909.9506			
Extreme (50°C)		1850.0426	1909.9506	3.1	0.002	Yes
Extreme (40°C)		1850.0426	1909.9506	5.4	0.003	Yes
Extreme (30°C)		1850.0426	1909.9506	4.6	0.002	Yes
Extreme (10°C)		1850.0426	1909.9506	5.5	0.003	Yes
Extreme (0°C)		1850.0426	1909.9506	4.4	0.002	Yes
Extreme (-10°C)		1850.0426	1909.9506	4.8	0.003	Yes
Extreme (-20°C)		1850.0426	1909.9506	3.6	0.002	Yes
Extreme (-30°C)		1850.0426	1909.9506	8.7	0.005	Yes
20°C	15%	1850.0426	1909.9506	6.4	0.003	Yes
	-15%	1850.0426	1909.9506	3.5	0.002	Yes
	End Point Voltage	1850.0426	1909.9506	2.1	0.001	Yes

9.4.2. WCDMA

Test Engineer ID:	27700	Test Date:	2025-04-10
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WCDMA REL 99 BAND 5

Band	5	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		824	849		2.5	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	824.1099	848.8732			
Extreme (50°C)		824.1099	848.8732	-1.8	-0.002	Yes
Extreme (40°C)		824.1099	848.8732	0.0	0.000	Yes
Extreme (30°C)		824.1099	848.8732	-1.6	-0.002	Yes
Extreme (10°C)		824.1099	848.8732	-0.4	-0.001	Yes
Extreme (0°C)		824.1099	848.8732	-0.4	0.000	Yes
Extreme (-10°C)		824.1099	848.8732	0.1	0.000	Yes
Extreme (-20°C)		824.1099	848.8732	1.0	0.001	Yes
Extreme (-30°C)		824.1099	848.8732	0.3	0.000	Yes
20°C	15%	824.1099	848.8732	-1.0	-0.001	Yes
	-15%	824.1099	848.8732	-0.8	-0.001	Yes
	End Point Voltage	824.1099	848.8732	-0.5	-0.001	Yes

WCDMA REL 99 BAND 2

Band	2	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1850	1910		2.5	Within Authorized Frequency Block (Hz)
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	
Temperature	Voltage					
Normal (20°C)	Normal	1850.1018	1909.8819			
Extreme (50°C)		1850.1018	1909.8819	0.4	0.000	Yes
Extreme (40°C)		1850.1018	1909.8819	1.3	0.001	Yes
Extreme (30°C)		1850.1018	1909.8819	1.7	0.001	Yes
Extreme (10°C)		1850.1018	1909.8819	2.7	0.001	Yes
Extreme (0°C)		1850.1018	1909.8819	5.4	0.003	Yes
Extreme (-10°C)		1850.1018	1909.8819	3.0	0.002	Yes
Extreme (-20°C)		1850.1018	1909.8819	4.3	0.002	Yes
Extreme (-30°C)		1850.1018	1909.8819	3.0	0.002	Yes
20°C	15%	1850.1018	1909.8819	1.3	0.001	Yes
	-15%	1850.1018	1909.8819	2.5	0.001	Yes
	End Point Voltage	1850.1018	1909.8819	1.7	0.001	Yes

WCDMA REL 99 BAND 4

Band	4	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1710	1755		2.5	Within Authorized Frequency Block (Hz)
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	
Temperature	Voltage					
Normal (20°C)	Normal	1710.1167	1754.8676			
Extreme (50°C)		1710.1167	1754.8676	-4.6	-0.003	Yes
Extreme (40°C)		1710.1167	1754.8676	-4.5	-0.003	Yes
Extreme (30°C)		1710.1167	1754.8676	-6.2	-0.004	Yes
Extreme (10°C)		1710.1167	1754.8676	-2.8	-0.002	Yes
Extreme (0°C)		1710.1167	1754.8676	-1.5	-0.001	Yes
Extreme (-10°C)		1710.1167	1754.8676	0.8	0.000	Yes
Extreme (-20°C)		1710.1167	1754.8676	1.8	0.001	Yes
Extreme (-30°C)		1710.1167	1754.8676	-1.6	-0.001	Yes
20°C	15%	1710.1167	1754.8676	-2.3	-0.001	Yes
	-15%	1710.1167	1754.8676	-3.6	-0.002	Yes
	End Point Voltage	1710.1167	1754.8676	-2.3	-0.001	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

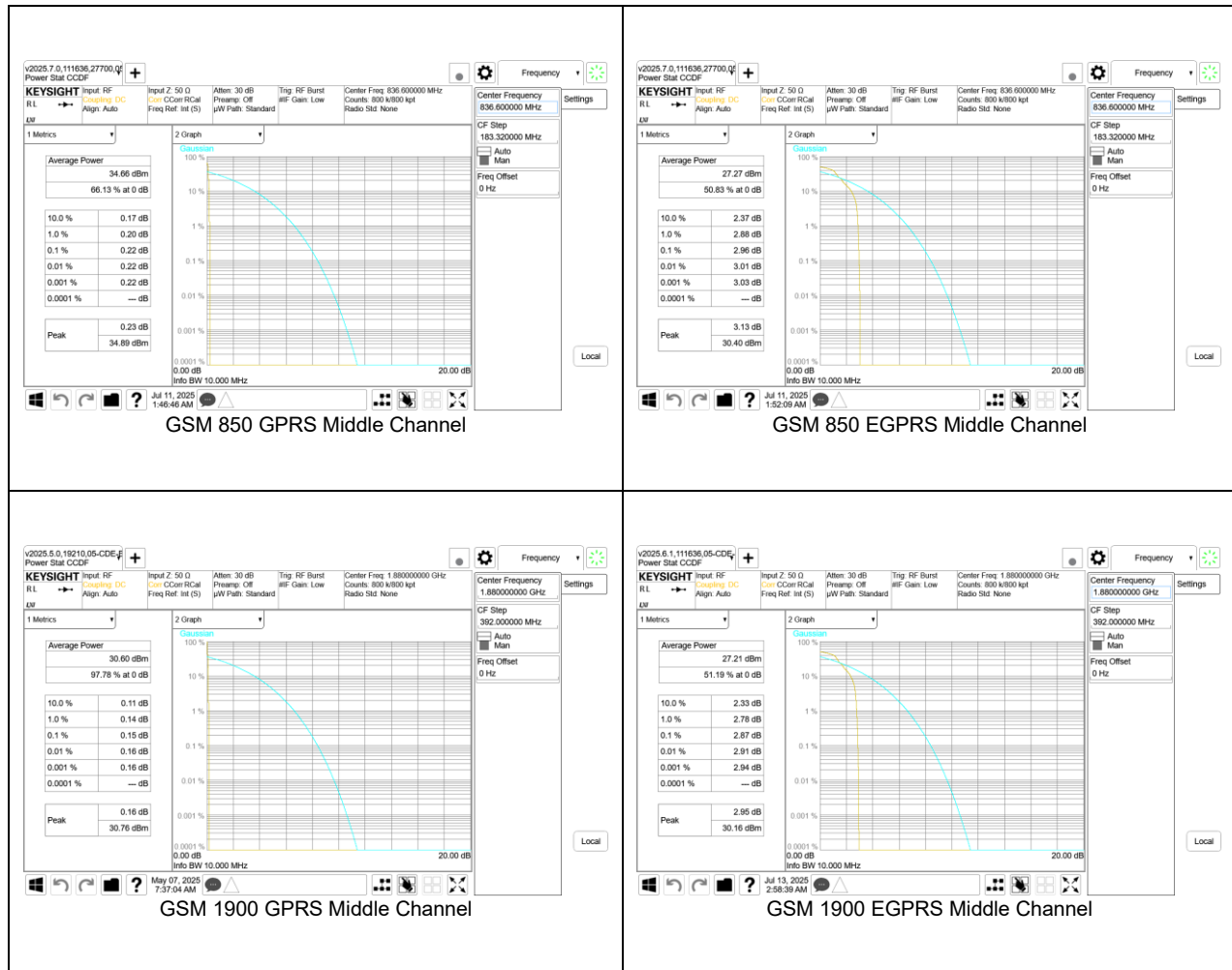
LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

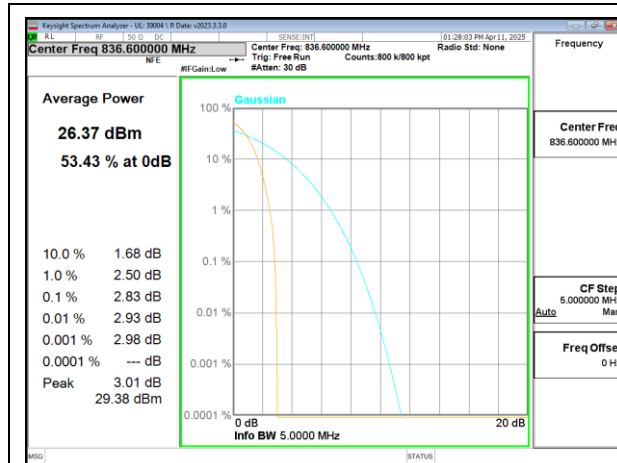
RESULT

Ant 3 was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

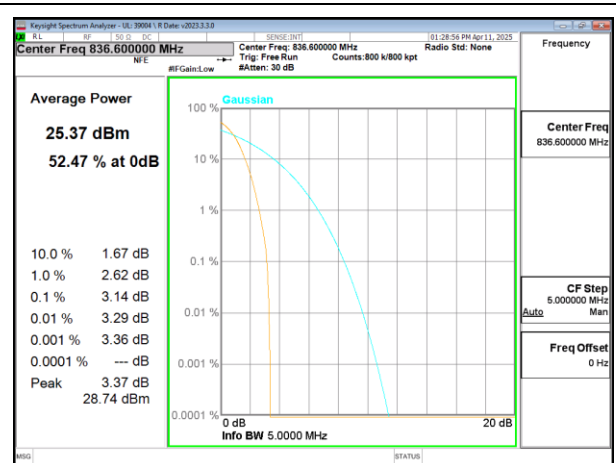
9.5.1. GSM



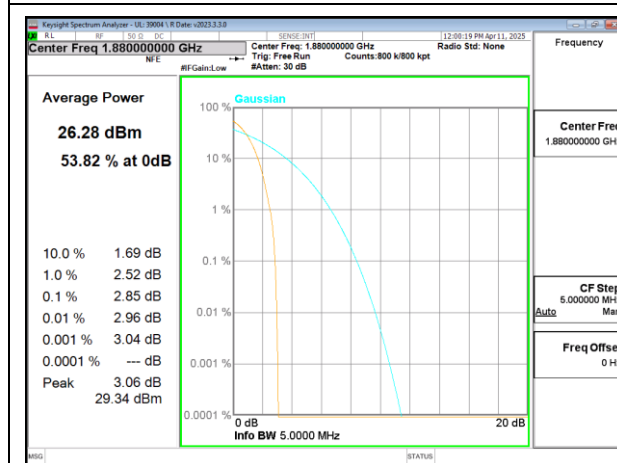
9.5.2. WCDMA



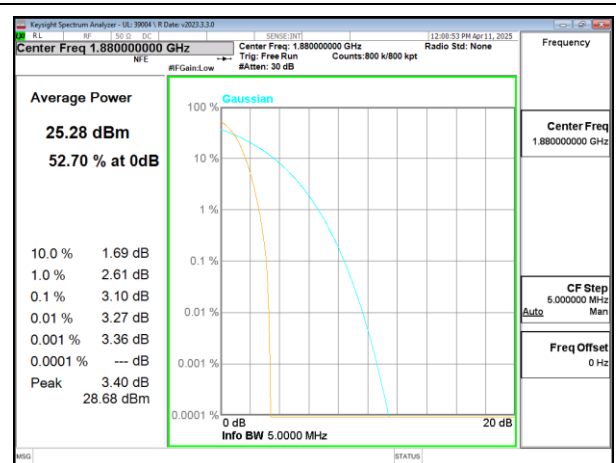
WCDMA Band 5 Rel 99 Middle Channel



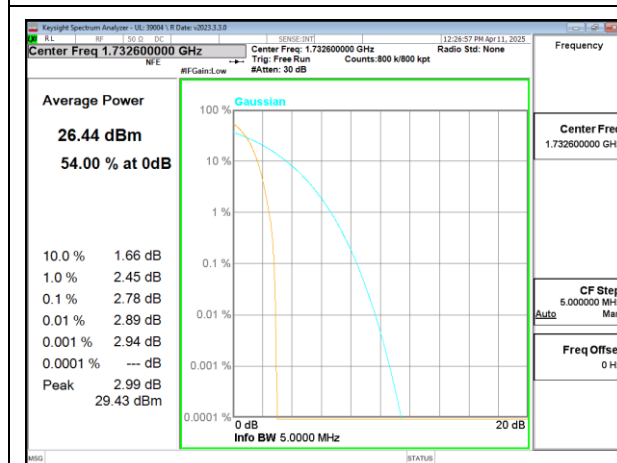
WCDMA Band 5 HSDPA Middle Channel



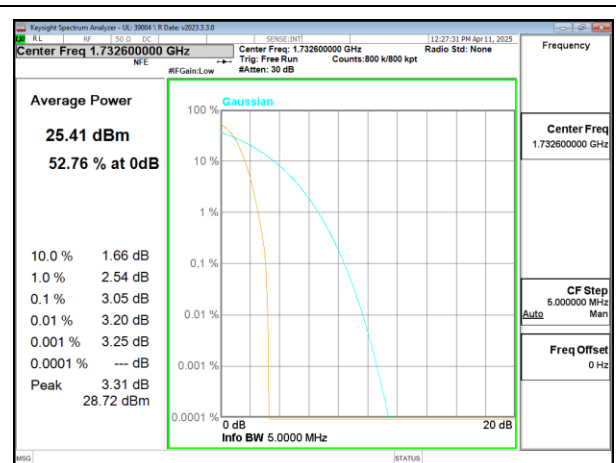
WCDMA Band 2 Rel 99 Middle Channel



WCDMA Band 2 HSDPA Middle Channel



WCDMA Band 4 Rel 99 Middle Channel



WCDMA Band 4 HSDPA Middle Channel

10. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions are measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement.

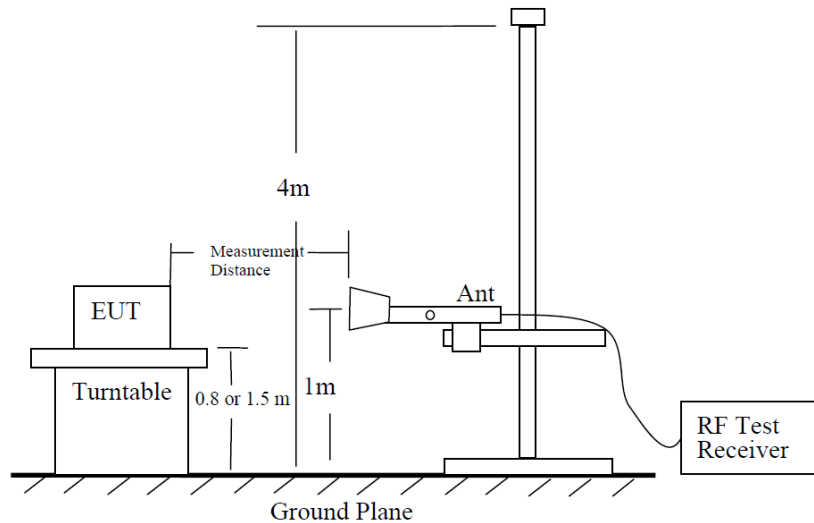


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

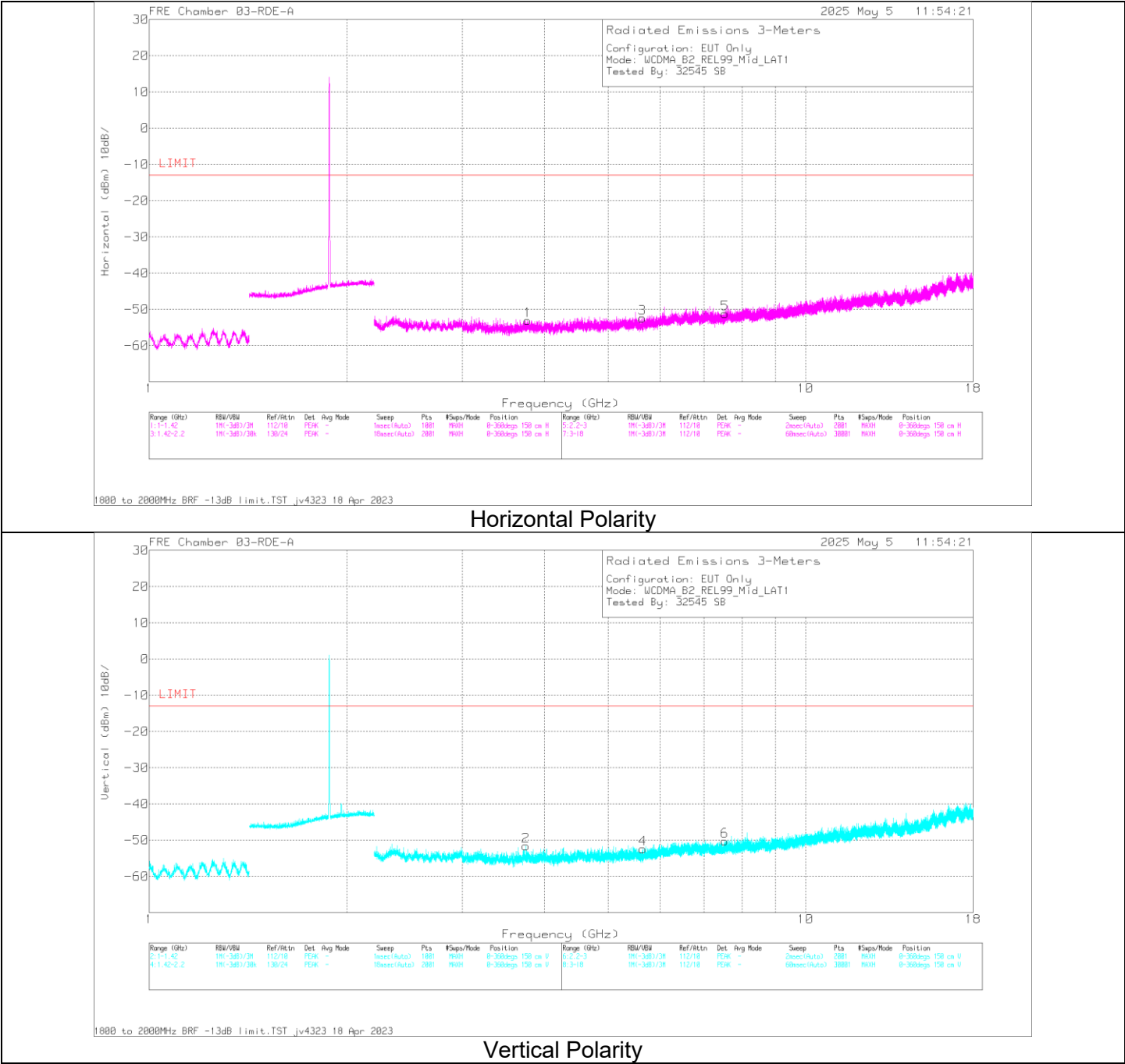
So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

Example Plot



Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
3.771000	55.78	Pk	33.4	-95.2	-47.0	-53.02	-13	-40.02	H
3.751000	57.37	Pk	33.4	-95.2	-47.2	-51.63	-13	-38.63	V
5.643500	55.63	Pk	34.4	-95.2	-47.2	-52.37	-13	-39.37	H
5.648000	55.59	Pk	34.4	-95.2	-47.2	-52.41	-13	-39.41	V
7.535000	54.03	Pk	35.9	-95.2	-45.9	-51.17	-13	-38.17	H
7.531500	54.93	Pk	35.9	-95.2	-45.9	-50.27	-13	-37.27	V

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ABOVE 1GHz

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53 and §90.691.
ISED: RSS132§5.5; RSS133§5.6 and RSS139§5.6

LIMIT

FCC: §22.917(a), §24.238(a), §27.53 (h), §90.691

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.

RSS132§5.5

Equipment shall meet the unwanted emission limits specified below:

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

RSS133§5.6

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment	
Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/(1% of OBW)
> 1	-13 dBm/MHz

RSS139§5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group)	Unwanted emission limit
≤ 1 MHz	-13 dBm/(1% of B*)
> 1 MHz	-13 dBm/MHz

*B is the frequency block or frequency block group.

TEST PROCEDURE

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

RESULTS

10.1.1. GSM 850

GPRS MODE, ANT 3

Date:	2025-05-01
Test Engineer:	111640, 111749, 25019
Configuration:	EUT Only
Mode:	GSM 850 GPRS
Chamber #:	04-RDE-P

Frequency (MHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz									
1.738120	59.50	Pk	29.50	-95.2	-49.2	-55.41	-13	-42.41	H
1.738120	67.92	Pk	29.50	-95.2	-49.2	-46.99	-13	-33.99	V
2.442560	57.00	Pk	32.20	-95.2	-50.3	-56.29	-13	-43.29	H
2.442560	57.06	Pk	32.20	-95.2	-50.3	-56.23	-13	-43.23	V
3.257000	54.33	Pk	32.70	-95.2	-47.4	-55.52	-13	-42.52	H
3.257000	55.36	Pk	32.70	-95.2	-47.4	-54.49	-13	-41.49	V
Mid Channel, 836.6MHz									
1.676080	57.94	Pk	29.00	-95.2	-49.5	-57.75	-13	-44.75	H
1.676960	58.41	Pk	29.00	-95.2	-49.4	-57.19	-13	-44.19	V
2.524400	59.67	Pk	32.10	-95.2	-49.7	-53.13	-13	-40.13	H
2.520880	59.64	Pk	32.10	-95.2	-49.8	-53.26	-13	-40.26	V
3.355120	55.1	Pk	32.70	-95.2	-47.2	-54.59	-13	-41.59	H
3.355120	55.31	Pk	32.70	-95.2	-47.2	-54.38	-13	-41.38	V
High Channel, 848.8MHz									
1.699840	58.43	Pk	29.20	-95.2	-49.5	-57.07	-13	-44.07	H
1.700720	58.54	Pk	29.20	-95.2	-49.5	-56.96	-13	-43.96	V
2.546400	58.39	Pk	32.20	-95.2	-49.7	-54.27	-13	-41.27	H
2.547280	58.13	Pk	32.20	-95.2	-49.6	-54.47	-13	-41.47	V
3.394720	54.53	Pk	32.80	-95.2	-47.4	-55.27	-13	-42.27	H
3.389880	54.89	Pk	32.80	-95.2	-47.3	-54.82	-13	-41.82	V

GPRS MODE, ANT 2

Date:	2025-07-10
Test Engineer:	32703
Configuration:	EUT Only
Mode:	GSM 850 GPRS
Chamber #:	03-RDE-C

Frequency (MHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz									
1.648450	57.48	Pk	28.40	-95.2	-47.7	-57.05	-13	-44.05	H
1.648450	56.93	Pk	28.40	-95.2	-47.7	-57.6	-13	-44.60	V
2.472400	64.46	Pk	32.30	-95.2	-47.4	-45.86	-13	-32.86	H
2.472400	65.63	Pk	32.30	-95.2	-47.4	-44.69	-13	-31.69	V
3.296800	53.27	Pk	33.00	-95.2	-45.6	-54.50	-13	-41.50	H
3.296800	51.85	Pk	33.00	-95.2	-45.6	-55.92	-13	-42.92	V
Mid Channel, 836.6MHz									
1.673200	61.84	Pk	28.80	-95.2	-47.7	-52.21	-13	-39.21	H
1.673200	64.37	Pk	28.80	-95.2	-47.7	-49.68	-13	-36.68	V
2.509750	64.36	Pk	32.30	-95.2	-47.1	-45.64	-13	-32.64	H
2.509750	65.2	Pk	32.30	-95.2	-47.1	-44.8	-13	-31.80	V
3.346750	51.6	Pk	32.90	-95.2	-45.2	-55.91	-13	-42.91	H
3.346750	52.08	Pk	32.90	-95.2	-45.2	-55.43	-13	-42.43	V
High Channel, 848.8MHz									
1.697500	53.73	Pk	29.20	-95.2	-47.6	-59.82	-13	-46.82	H
1.697500	54.8	Pk	29.20	-95.2	-47.6	-58.75	-13	-45.75	V
2.546200	58.81	Pk	32.30	-95.2	-47.6	-51.73	-13	-38.73	H
2.546200	60.5	Pk	32.30	-95.2	-47.6	-50.04	-13	-37.04	V
3.395350	49.61	Pk	32.80	-95.2	-44.8	-57.6	-13	-44.60	H
3.395350	51.49	Pk	32.80	-95.2	-44.8	-55.72	-13	-42.72	V

EGPRS MODE, ANT 3

Date:	2025-05-16
Test Engineer:	45258
Configuration:	EUT Only
Mode:	GSM 850 EGPRS
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz									
1.644400	59.24	Pk	28.90	-95.2	-49.6	-56.66	-13	-43.66	H
1.646650	57.56	Pk	28.90	-95.2	-49.7	-58.41	-13	-45.41	V
2.473750	59.21	Pk	31.80	-95.2	-49.9	-54.09	-13	-41.09	H
2.470600	58.35	Pk	31.80	-95.2	-50.0	-55.01	-13	-42.01	V
3.291850	57.19	Pk	32.90	-95.2	-48.1	-53.21	-13	-40.21	H
3.294550	56.46	Pk	32.90	-95.2	-47.9	-53.74	-13	-40.74	V
Mid Channel, 836.6MHz									
1.675900	58.72	Pk	29.00	-95.2	-49.7	-57.18	-13	-44.18	H
1.674100	59.38	Pk	29.00	-95.2	-49.6	-56.43	-13	-43.43	V
2.508400	57.38	Pk	32.00	-95.2	-50.0	-55.86	-13	-42.86	H
2.507050	58.15	Pk	32.00	-95.2	-50.0	-55.05	-13	-42.05	V
3.348100	56.16	Pk	32.70	-95.2	-47.5	-53.84	-13	-40.84	H
3.347650	55.67	Pk	32.70	-95.2	-47.5	-54.30	-13	-41.30	V
High Channel, 848.8MHz									
1.695250	58.76	Pk	29.20	-95.2	-49.8	-57.04	-13	-44.04	H
1.697950	57.53	Pk	29.20	-95.2	-49.7	-58.18	-13	-45.18	V
2.540800	59.93	Pk	32.20	-95.2	-50.1	-53.19	-13	-40.19	H
2.544400	59.06	Pk	32.20	-95.2	-50.1	-54.04	-13	-41.04	V
3.395800	54.48	Pk	32.80	-95.2	-47.3	-55.20	-13	-42.20	H
3.392200	55.70	Pk	32.80	-95.2	-47.3	-54.00	-13	-41.00	V

EGPRS MODE, ANT 2

Date:	2025-07-25
Test Engineer:	32545
Configuration:	EUT Only
Mode:	GSM 850 EGPRS
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz									
1.651000	59.03	Pk	28.90	-95.2	-49.4	-56.67	-13	-43.67	H
1.639560	59.15	Pk	28.90	-95.2	-49.4	-56.55	-13	-43.55	V
2.475120	59.36	Pk	31.90	-95.2	-50.2	-54.13	-13	-41.13	H
2.472920	58.73	Pk	31.80	-95.2	-50.1	-54.77	-13	-41.77	V
3.287800	56.44	Pk	32.90	-95.2	-47.5	-53.34	-13	-40.34	H
3.298800	55.84	Pk	32.90	-95.2	-47.4	-53.86	-13	-40.86	V
Mid Channel, 836.6MHz									
1.666400	59.1	Pk	29.00	-95.2	-49.5	-56.56	-13	-43.56	H
1.672560	58.02	Pk	29.00	-95.2	-49.4	-57.58	-13	-44.58	V
2.504160	58.69	Pk	32.00	-95.2	-49.9	-54.43	-13	-41.43	H
2.511200	58.74	Pk	32.00	-95.2	-49.9	-54.36	-13	-41.36	V
3.328720	55.55	Pk	32.70	-95.2	-47.3	-54.25	-13	-41.25	H
2.504160	58.69	Pk	32.00	-95.2	-49.9	-54.43	-13	-41.43	V
High Channel, 848.8MHz									
1.701600	59.91	Pk	29.20	-95.2	-49.5	-55.59	-13	-42.59	H
1.699840	58.18	Pk	29.20	-95.2	-49.5	-57.32	-13	-44.32	V
2.545960	59.23	Pk	32.20	-95.2	-49.7	-53.47	-13	-40.47	H
2.542440	58.26	Pk	32.20	-95.2	-49.5	-54.28	-13	-41.28	V
3.390760	54.51	Pk	32.80	-95.2	-47.3	-55.19	-13	-42.19	H
3.390760	54.67	Pk	32.80	-95.2	-47.3	-55.03	-13	-42.03	V

10.1.2. GSM 1900

GPRS MODE, ANT 3

Date:	03-RDE-A
Test Engineer:	111411
Configuration:	EUT Only
Mode:	GSM 1900 GPRS
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.687000	56.24	Pk	33.2	-95.2	-47.2	-52.96	-13	-39.96	H
3.658500	56.28	Pk	33.1	-95.2	-47.2	-53.02	-13	-40.02	V
5.539500	56.53	Pk	34.4	-95.2	-47.5	-51.72	-13	-38.72	H
5.514000	55.26	Pk	34.4	-95.2	-47.2	-52.74	-13	-39.74	V
7.422000	54.35	Pk	35.8	-95.2	-46.2	-51.25	-13	-38.25	H
7.387000	53.66	Pk	35.8	-95.2	-45.7	-51.44	-13	-38.44	V
Mid Channel, 1880MHz									
3.773000	54.86	Pk	33.4	-95.2	-47.0	-53.94	-13	-40.94	H
3.761000	55.34	Pk	33.4	-95.2	-47.2	-53.66	-13	-40.66	V
5.655500	55.59	Pk	34.4	-95.2	-47.2	-52.36	-13	-39.36	H
5.629500	55.35	Pk	34.4	-95.2	-47.2	-52.60	-13	-39.60	V
7.529500	54.8	Pk	35.9	-95.2	-45.9	-50.35	-13	-37.35	H
7.516500	54	Pk	35.8	-95.2	-46.1	-51.45	-13	-38.45	V
High Channel, 1909.8MHz									
3.816500	54.63	Pk	33.5	-95.2	-47.0	-54.07	-13	-41.07	H
3.793000	55.62	Pk	33.4	-95.2	-46.9	-53.08	-13	-40.08	V
5.721000	55.24	Pk	34.6	-95.2	-47.0	-52.36	-13	-39.36	H
5.691500	54.62	Pk	34.5	-95.2	-46.9	-52.98	-13	-39.98	V
7.641500	53.93	Pk	35.9	-95.2	-45.1	-50.47	-13	-37.47	H
7.627000	54.26	Pk	35.9	-95.2	-45.0	-50.04	-13	-37.04	V

GPRS MODE, ANT 4

Date:	2025-05-01
Test Engineer:	23522
Configuration:	EUT Only
Mode:	GSM 1900 GPRS
Chamber #:	04-RDE-P

Frequency (MHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.700500	52.61	Pk	33.1	-95.2	-45.7	-55.17	-13	-42.17	H
3.700500	51.98	Pk	33.1	-95.2	-45.7	-55.80	-13	-42.80	V
5.500000	55.18	Pk	34.3	-95.2	-47.2	-52.89	-13	-39.89	H
5.500000	53.09	Pk	34.3	-95.2	-47.2	-54.98	-13	-41.98	V
7.400000	53.52	Pk	35.7	-95.2	-46.1	-52.04	-13	-39.04	H
7.400000	52.58	Pk	35.7	-95.2	-46.1	-52.98	-13	-39.98	V
Mid Channel, 1880MHz									
3.760000	53.58	Pk	33.3	-95.2	-46.1	-54.43	-13	-41.43	H
3.759500	52.84	Pk	33.3	-95.2	-46.1	-55.19	-13	-42.19	V
5.639500	56.84	Pk	34.4	-95.2	-47.5	-51.5	-13	-38.50	H
5.640000	61.48	Pk	34.4	-95.2	-47.5	-46.86	-13	-33.86	V
7.520500	53.23	Pk	35.7	-95.2	-47.3	-53.6	-13	-40.60	H
7.520500	54.47	Pk	35.7	-95.2	-47.3	-52.36	-13	-39.36	V
High Channel, 1909.8MHz									
3.819000	52.55	Pk	33.3	-95.2	-46.2	-55.58	-13	-42.58	H
3.819000	52.45	Pk	33.3	-95.2	-46.2	-55.68	-13	-42.68	V
5.730500	54.39	Pk	34.5	-95.2	-47.0	-53.32	-13	-40.32	H
5.730500	52.39	Pk	34.5	-95.2	-47.0	-55.32	-13	-42.32	V
7.639500	54.32	Pk	35.8	-95.2	-46.7	-51.77	-13	-38.77	H
7.639500	53.7	Pk	35.8	-95.2	-46.7	-52.39	-13	-39.39	V

GPRS MODE, ANT 2

Date:	2025-04-30
Test Engineer:	23522
Configuration:	EUT Only
Mode:	GSM 1900 GPRS
Chamber #:	04-RDE-P

Frequency (MHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.700000	52.13	Pk	33.1	-95.2	-46.3	-56.23	-13	-43.23	H
3.700000	52.26	Pk	33.1	-95.2	-46.3	-56.10	-13	-43.10	V
5.500500	54.52	Pk	34.3	-95.2	-48.0	-54.40	-13	-41.40	H
5.500500	53.9	Pk	34.3	-95.2	-48.0	-55.02	-13	-42.02	V
7.399500	54.29	Pk	35.7	-95.2	-46.7	-51.93	-13	-38.93	H
7.399500	53.5	Pk	35.7	-95.2	-46.7	-52.72	-13	-39.72	V
Mid Channel, 1880MHz									
3.761000	51.97	Pk	33.3	-95.2	-46.1	-56.03	-13	-43.03	H
3.761000	52.24	Pk	33.3	-95.2	-46.1	-55.76	-13	-42.76	V
5.640500	55.61	Pk	34.4	-95.2	-47.5	-52.73	-13	-39.73	H
5.640500	53.96	Pk	34.4	-95.2	-47.5	-54.38	-13	-41.38	V
7.520500	54.78	Pk	35.7	-95.2	-47.3	-52.05	-13	-39.05	H
7.520500	53.57	Pk	35.7	-95.2	-47.3	-53.26	-13	-40.26	V
High Channel, 1909.8MHz									
3.819500	52.17	Pk	33.3	-95.2	-46.2	-55.96	-13	-42.96	H
3.819250	52.21	Pk	33.3	-95.2	-46.2	-55.92	-13	-42.92	V
5.730000	55.34	Pk	34.5	-95.2	-47.0	-52.37	-13	-39.37	H
5.730000	54.78	Pk	34.5	-95.2	-47.0	-52.93	-13	-39.93	V
7.640000	53.74	Pk	35.8	-95.2	-46.7	-52.35	-13	-39.35	H
7.640000	53.93	Pk	35.8	-95.2	-46.7	-52.16	-13	-39.16	V

GPRS MODE, ANT 1

Date:	2025-05-1
Test Engineer:	23522
Configuration:	EUT Only
Mode:	GSM 1900 GPRS
Chamber #:	04-RDE-P

Frequency (MHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.699000	52.96	Pk	33.1	-95.2	-46.3	-55.40	-13	-42.40	H
3.699000	53.22	Pk	33.1	-95.2	-46.3	-55.14	-13	-42.14	V
5.501500	55.17	Pk	34.3	-95.2	-48.0	-53.74	-13	-40.74	H
5.501500	54.53	Pk	34.3	-95.2	-48.0	-54.38	-13	-41.38	V
7.399500	54.91	Pk	35.7	-95.2	-46.7	-51.31	-13	-38.31	H
7.399500	53.1	Pk	35.7	-95.2	-46.7	-53.12	-13	-40.12	V
Mid Channel, 1880MHz									
3.760500	52.07	Pk	33.3	-95.2	-46.1	-55.94	-13	-42.94	H
3.760500	53	Pk	33.3	-95.2	-46.1	-55.01	-13	-42.01	V
5.639000	53.96	Pk	34.4	-95.2	-47.5	-54.37	-13	-41.37	H
5.639000	54.33	Pk	34.4	-95.2	-47.5	-54.00	-13	-41.00	V
7.520500	53.31	Pk	35.7	-95.2	-47.3	-53.52	-13	-40.52	H
7.520500	52.95	Pk	35.7	-95.2	-47.3	-53.88	-13	-40.88	V
High Channel, 1909.8MHz									
3.813000	56	Pk	33.5	-95.2	-46.8	-52.50	-13	-39.50	H
3.790000	54.7	Pk	33.4	-95.2	-46.8	-53.90	-13	-40.90	V
5.728500	55.79	Pk	34.6	-95.2	-46.8	-51.56	-13	-38.56	H
5.709500	54.78	Pk	34.6	-95.2	-47.1	-52.87	-13	-39.87	V
7.631500	53.86	Pk	35.9	-95.2	-44.9	-50.34	-13	-37.34	H
7.632500	55.18	Pk	35.9	-95.2	-44.9	-49.02	-13	-36.02	V

EGPRS MODE, ANT 3

Date:	2025-05-01
Test Engineer:	111411
Configuration:	EUT Only
Mode:	GSM 1900 EGPRS
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.710500	55.55	Pk	33.3	-95.2	-47.2	-53.55	-13	-40.55	H
3.707500	55.96	Pk	33.3	-95.2	-47.3	-53.19	-13	-40.19	V
5.561000	55.66	Pk	34.4	-95.2	-47.2	-52.34	-13	-39.34	H
5.531000	55.54	Pk	34.4	-95.2	-47.3	-52.56	-13	-39.56	V
7.408000	54.32	Pk	35.8	-95.2	-46.0	-51.08	-13	-38.08	H
7.397500	54.34	Pk	35.8	-95.2	-45.7	-50.76	-13	-37.76	V
Mid Channel, 1880MHz									
3.774000	55.44	Pk	33.4	-95.2	-47.0	-53.36	-13	-40.36	H
3.770000	55.76	Pk	33.4	-95.2	-47.0	-53.04	-13	-40.04	V
5.647500	55.68	Pk	34.4	-95.2	-47.2	-52.32	-13	-39.32	H
5.632500	55.14	Pk	34.4	-95.2	-47.1	-52.76	-13	-39.76	V
7.531500	54.16	Pk	35.9	-95.2	-45.9	-51.04	-13	-38.04	H
7.489500	54.97	Pk	35.8	-95.2	-46.3	-50.73	-13	-37.73	V
High Channel, 1909.8MHz									
3.815500	55.74	Pk	33.5	-95.2	-47.0	-52.91	-13	-39.91	H
3.783500	55.41	Pk	33.4	-95.2	-47.0	-53.34	-13	-40.34	V
5.727000	54.68	Pk	34.6	-95.2	-46.9	-52.82	-13	-39.82	H
5.723500	56.03	Pk	34.6	-95.2	-46.9	-51.47	-13	-38.47	V
7.652000	55.18	Pk	35.9	-95.2	-45.2	-49.32	-13	-36.32	H
7.645000	54.09	Pk	35.9	-95.2	-45.1	-50.31	-13	-37.31	V

EGPRS MODE, ANT 4

Date:	2025-07-25
Test Engineer:	32545
Configuration:	EUT Only
Mode:	GSM 1900 EGPRS
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.714500	55.15	Pk	33.00	-95.2	-47.1	-54.15	-13	-41.15	H
3.700500	54.85	Pk	33.00	-95.2	-47.2	-54.55	-13	-41.55	V
5.548000	56.46	Pk	34.40	-95.2	-48.3	-52.64	-13	-39.64	H
5.545000	56.92	Pk	34.40	-95.2	-48.4	-52.28	-13	-39.28	V
7.402500	56.26	Pk	35.60	-95.2	-47.5	-50.79	-13	-37.79	H
7.394500	55.44	Pk	35.60	-95.2	-47.40	-51.56	-13	-38.56	V
Mid Channel, 1880MHz									
3.753500	56.80	Pk	33.10	-95.2	-47.	-52.90	-13	-39.90	H
3.765000	56.50	Pk	33.10	-95.2	-47.6	-53.20	-13	-40.20	V
5.629500	55.74	Pk	34.50	-95.2	-48.0	-52.96	-13	-39.96	H
5.647000	55.51	Pk	34.50	-95.2	-47.9	-53.09	-13	-40.09	V
7.520000	55.88	Pk	35.70	-95.2	-47.7	-51.32	-13	-38.32	H
7.519000	55.65	Pk	35.70	-95.2	-47.7	-51.55	-13	-38.55	V
High Channel, 1909.8MHz									
3.824500	56.56	Pk	33.30	-95.2	-47.5	-52.84	-13	-39.84	H
3.821500	56.86	Pk	33.30	-95.2	-47.5	-52.54	-13	-39.54	V
5.718500	55.84	Pk	34.60	-95.2	-47.7	-52.46	-13	-39.46	H
5.746500	56.39	Pk	34.60	-95.2	-47.7	-51.91	-13	-38.91	V
7.641500	56.57	Pk	35.80	-95.2	-47.0	-49.83	-13	-36.83	H
7.638000	55.50	Pk	35.80	-95.2	-47.1	-51.00	-13	-38.00	V

EGPRS MODE, ANT 2

Date:	2025-04-30
Test Engineer:	23522
Configuration:	EUT Only
Mode:	GSM 1900 EGPRS
Chamber #:	04-RDE-P

Frequency (MHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.700500	52.47	Pk	33.1	-95.2	-46.3	-55.89	-13	-42.89	H
3.700500	53.42	Pk	33.1	-95.2	-46.3	-54.94	-13	-41.94	V
5.500000	54.02	Pk	34.3	-95.2	-48.0	-54.89	-13	-41.89	H
5.500000	54.22	Pk	34.3	-95.2	-48.0	-54.69	-13	-41.69	V
7.401000	52.67	Pk	35.7	-95.2	-46.8	-53.58	-13	-40.58	H
7.401000	52.81	Pk	35.7	-95.2	-46.8	-53.44	-13	-40.44	V
Mid Channel, 1880MHz									
3.760000	52.2	Pk	33.3	-95.2	-46.1	-55.81	-13	-42.81	H
3.760000	53.72	Pk	33.3	-95.2	-46.1	-54.29	-13	-41.29	V
5.640500	55.39	Pk	34.4	-95.2	-47.5	-52.95	-13	-39.95	H
5.640500	54.55	Pk	34.4	-95.2	-47.5	-53.79	-13	-40.79	V
7.520500	53.17	Pk	35.7	-95.2	-47.3	-53.66	-13	-40.66	H
7.520500	55.52	Pk	35.7	-95.2	-47.3	-51.31	-13	-38.31	V
High Channel, 1909.8MHz									
3.819500	51.83	Pk	33.3	-95.2	-45.8	-55.86	-13	-42.86	H
3.819500	52.96	Pk	33.3	-95.2	-45.8	-54.73	-13	-41.73	V
5.729500	53.98	Pk	34.5	-95.2	-46.5	-53.21	-13	-40.21	H
5.729500	53.07	Pk	34.5	-95.2	-46.5	-54.12	-13	-41.12	V
7.639500	54.15	Pk	35.8	-95.2	-46.1	-51.39	-13	-38.39	H
7.639500	53.98	Pk	35.8	-95.2	-46.1	-51.56	-13	-38.56	V

EGPRS MODE, ANT 1

Date:	2025-05-2
Test Engineer:	111411
Configuration:	EUT Only
Mode:	GSM 1900 EGPRS
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.704500	55.96	Pk	33.2	-95.2	-47.3	-53.29	-13	-40.29	H
3.696500	56.53	Pk	33.2	-95.2	-47.3	-52.77	-13	-39.77	V
5.515000	55.83	Pk	34.4	-95.2	-47.2	-52.17	-13	-39.17	H
5.505000	55.73	Pk	34.5	-95.2	-47.2	-52.17	-13	-39.17	V
7.403000	54.91	Pk	35.8	-95.2	-45.8	-50.29	-13	-37.29	H
7.399500	54.56	Pk	35.8	-95.2	-45.8	-50.59	-13	-37.59	V
Mid Channel, 1880MHz									
3.766500	55.72	Pk	33.4	-95.2	-47.1	-53.13	-13	-40.13	H
3.754500	55.7	Pk	33.4	-95.2	-47.1	-53.20	-13	-40.20	V
5.643000	55.25	Pk	34.4	-95.2	-47.2	-52.75	-13	-39.75	H
5.609000	56.06	Pk	34.4	-95.2	-47.2	-51.94	-13	-38.94	V
7.530000	54.81	Pk	35.9	-95.2	-45.9	-50.39	-13	-37.39	H
7.485000	55.33	Pk	35.8	-95.2	-46.4	-50.47	-13	-37.47	V
High Channel, 1909.8MHz									
3.821500	55.9	Pk	33.5	-95.2	-47.0	-52.75	-13	-39.75	H
3.812000	54.4	Pk	33.5	-95.2	-46.7	-54.00	-13	-41.00	V
5.726000	55.75	Pk	34.6	-95.2	-46.8	-51.65	-13	-38.65	H
5.686500	55.43	Pk	34.5	-95.2	-46.9	-52.17	-13	-39.17	V
7.631500	54.02	Pk	35.9	-95.2	-44.9	-50.18	-13	-37.18	H
7.603000	53.87	Pk	35.9	-95.2	-45.1	-50.53	-13	-37.53	V

10.1.3. WCDMA BAND 5

REL 99 MODE, ANT 3

Date:	2025-05-02
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 5
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 826.4 MHz									
1.661560	58.74	Pk	28.5	-95.2	-48.9	-56.86	-13	-43.86	H
1.654520	61.14	Pk	28.5	-95.2	-48.9	-54.46	-13	-41.46	V
2.473360	58.54	Pk	32.2	-95.2	-49.0	-53.46	-13	-40.46	H
2.469840	58.71	Pk	32.2	-95.2	-49.0	-53.29	-13	-40.29	V
3.301000	56.65	Pk	32.8	-95.2	-47.0	-52.75	-13	-39.75	H
3.297920	56.20	Pk	32.8	-95.2	-46.9	-53.10	-13	-40.10	V
Mid Channel, 836.6MHz									
1.670800	59.54	Pk	28.6	-95.2	-49.1	-56.14	-13	-43.14	H
1.676080	62.22	Pk	28.7	-95.2	-49.1	-53.38	-13	-40.38	V
3.347200	55.44	Pk	32.8	-95.2	-46.7	-53.66	-13	-40.66	H
3.329600	56.09	Pk	32.8	-95.2	-46.9	-53.21	-13	-40.21	V
2.504160	58.85	Pk	32.2	-95.2	-49.1	-53.25	-13	-40.25	H
2.496680	58.34	Pk	32.3	-95.2	-49.1	-53.66	-13	-40.66	V
High Channel, 846.6MHz									
1.691480	59.6	Pk	28.8	-95.2	-49.1	-55.85	-13	-42.85	H
1.677840	59.67	Pk	28.7	-95.2	-49.1	-55.93	-13	-42.93	V
2.538920	58.36	Pk	32.2	-95.2	-48.8	-53.44	-13	-40.44	H
2.539360	59.41	Pk	32.2	-95.2	-48.9	-52.43	-13	-39.43	V
3.385040	55.18	Pk	32.8	-95.2	-46.5	-53.72	-13	-40.72	H
3.383720	54.98	Pk	32.8	-95.2	-46.5	-53.92	-13	-40.92	V

REL 99 MODE, ANT 2

Date:	2025-05-05
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 5
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 826.4 MHz									
1.657160	58	Pk	28.5	-95.2	-49.0	-57.72	-13	-44.72	H
1.648360	59.46	Pk	28.4	-95.2	-49.0	-56.38	-13	-43.38	V
2.474240	58.85	Pk	32.2	-95.2	-49.2	-53.35	-13	-40.35	H
2.461920	58.12	Pk	32.2	-95.2	-49.3	-54.18	-13	-41.18	V
3.313320	56.05	Pk	32.8	-95.2	-47.0	-53.35	-13	-40.35	H
3.298800	56.79	Pk	32.8	-95.2	-47.1	-52.71	-13	-39.71	V
Mid Channel, 836.6MHz									
1.674760	60.04	Pk	28.7	-95.2	-49.1	-55.56	-13	-42.56	H
1.670360	60.71	Pk	28.6	-95.2	-49.0	-54.93	-13	-41.93	V
2.506360	58.73	Pk	32.2	-95.2	-49.0	-53.27	-13	-40.27	H
2.502400	58.48	Pk	32.2	-95.2	-49.2	-53.68	-13	-40.68	V
3.348960	55.38	Pk	32.8	-95.2	-46.7	-53.72	-13	-40.72	H
3.335320	55.62	Pk	32.8	-95.2	-46.8	-53.61	-13	-40.61	V
High Channel, 846.6MHz									
1.689720	58.77	Pk	28.8	-95.2	-49.1	-56.73	-13	-43.73	H
1.681360	58.61	Pk	28.8	-95.2	-49.0	-56.79	-13	-43.79	V
2.531880	58.37	Pk	32.2	-95.2	-48.9	-53.53	-13	-40.53	H
2.529680	58.7	Pk	32.2	-95.2	-48.9	-53.20	-13	-40.20	V
3.388560	55.17	Pk	32.8	-95.2	-46.5	-53.69	-13	-40.69	H
3.381080	55.86	Pk	32.8	-95.2	-46.3	-52.85	-13	-39.85	V

HSDPA MODE, ANT 3

Date:	2025-05-06
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA HSDPA Band 5
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 826.4MHz									
1.653200	59.89	Pk	28.4	-95.2	-49.1	-56.01	-13	-43.01	H
1.654960	63.06	Pk	28.5	-95.2	-49.0	-52.64	-13	-39.64	V
2.468960	58.52	Pk	32.2	-95.2	-49.2	-53.68	-13	-40.68	H
2.457520	58	Pk	32.2	-95.2	-49.3	-54.30	-13	-41.30	V
3.314200	56.27	Pk	32.8	-95.2	-47.0	-53.11	-13	-40.11	H
3.309800	55.77	Pk	32.8	-95.2	-46.9	-53.53	-13	-40.53	V
Mid Channel, 836.6MHz									
1.671680	59.72	Pk	28.6	-95.2	-49.1	-55.98	-13	-42.98	H
1.675640	62.01	Pk	28.7	-95.2	-49.1	-53.59	-13	-40.59	V
3.334000	55.71	Pk	32.8	-95.2	-46.7	-53.39	-13	-40.39	H
3.345000	54.84	Pk	32.8	-95.2	-46.8	-54.36	-13	-41.36	V
2.515000	58.35	Pk	32.2	-95.2	-49.0	-53.65	-13	-40.65	H
2.507240	58.4	Pk	32.2	-95.2	-49.0	-53.62	-13	-40.62	V
High Channel, 846.6MHz									
1.691480	60.22	Pk	28.8	-95.2	-49.1	-55.23	-13	-42.23	H
1.691040	60.24	Pk	28.8	-95.2	-49.0	-55.16	-13	-42.16	V
2.536720	58.92	Pk	32.2	-95.2	-48.8	-52.88	-13	-39.88	H
2.527480	58.91	Pk	32.2	-95.2	-49.0	-53.04	-13	-40.04	V
3.383280	54.87	Pk	32.8	-95.2	-46.5	-54.03	-13	-41.03	H
3.388120	54.81	Pk	32.8	-95.2	-46.4	-54.00	-13	-41.00	V

HSDPA MODE, ANT 2

Date:	2025-05-06
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA HSDPA Band 5
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 826.4 MHz									
1.654960	58.54	Pk	28.5	-95.2	-49.0	-57.16	-13	-44.16	H
1.654960	59.92	Pk	28.5	-95.2	-49.0	-55.78	-13	-42.78	V
2.469840	59.05	Pk	32.2	-95.2	-49.2	-53.15	-13	-40.15	H
2.468520	58.53	Pk	32.2	-95.2	-49.3	-53.72	-13	-40.72	V
3.301000	56.05	Pk	32.8	-95.2	-46.9	-53.25	-13	-40.25	H
3.285600	56.84	Pk	32.8	-95.2	-47.2	-52.76	-13	-39.76	V
Mid Channel, 836.6MHz									
1.685320	59.41	Pk	28.8	-95.2	-49.1	-56.06	-13	-43.06	H
1.675640	62.68	Pk	28.7	-95.2	-49.1	-52.92	-13	-39.92	V
2.507240	62.66	Pk	32.2	-95.2	-49.0	-49.36	-13	-36.36	H
2.506800	62.61	Pk	32.2	-95.2	-49.0	-49.39	-13	-36.39	V
3.331360	56.28	Pk	32.8	-95.2	-46.8	-52.88	-13	-39.88	H
3.315080	56.35	Pk	32.8	-95.2	-46.9	-52.95	-13	-39.95	V
High Channel, 846.6MHz									
1.690600	59.41	Pk	28.8	-95.2	-49.0	-56.03	-13	-43.03	H
1.681360	58.7	Pk	28.8	-95.2	-49.0	-56.70	-13	-43.70	V
2.536720	60.01	Pk	32.2	-95.2	-48.8	-51.79	-13	-38.79	H
2.531880	59.7	Pk	32.2	-95.2	-48.9	-52.20	-13	-39.20	V
3.380640	55.1	Pk	32.8	-95.2	-46.3	-53.60	-13	-40.60	H
3.370520	55.12	Pk	32.8	-95.2	-46.4	-53.63	-13	-40.63	V

10.1.4. WCDMA BAND 2

REL 99 MODE, ANT 3

Date:	2025-05-05
Test Engineer:	32545
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 2
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.710500	54.77	Pk	33.3	-95.2	-47.2	-54.33	-13	-41.33	H
3.695500	55.61	Pk	33.2	-95.2	-47.3	-53.64	-13	-40.64	V
5.554000	56.44	Pk	34.4	-95.2	-47.3	-51.66	-13	-38.66	H
5.561500	55.1	Pk	34.4	-95.2	-47.2	-52.90	-13	-39.90	V
7.385000	53.95	Pk	35.8	-95.2	-45.7	-51.15	-13	-38.15	H
7.415000	55.05	Pk	35.8	-95.2	-46.0	-50.35	-13	-37.35	V
Mid Channel, 1880MHz									
3.771000	55.78	Pk	33.4	-95.2	-47.0	-53.02	-13	-40.02	H
3.751000	57.37	Pk	33.4	-95.2	-47.2	-51.63	-13	-38.63	V
5.643500	55.63	Pk	34.4	-95.2	-47.2	-52.37	-13	-39.37	H
5.648000	55.59	Pk	34.4	-95.2	-47.2	-52.41	-13	-39.41	V
7.535000	54.03	Pk	35.9	-95.2	-45.9	-51.17	-13	-38.17	H
7.531500	54.93	Pk	35.9	-95.2	-45.9	-50.27	-13	-37.27	V
High Channel, 1907.6MHz									
3.806000	54.89	Pk	33.5	-95.2	-46.9	-53.71	-13	-40.71	H
3.804500	55.25	Pk	33.5	-95.2	-46.8	-53.20	-13	-40.20	V
5.708000	54.91	Pk	34.6	-95.2	-47.0	-52.69	-13	-39.69	H
5.730500	54.71	Pk	34.6	-95.2	-46.8	-52.64	-13	-39.64	V
7.632000	54.43	Pk	35.9	-95.2	-44.9	-49.77	-13	-36.77	H
7.635000	54.15	Pk	35.9	-95.2	-44.9	-50.05	-13	-37.05	V

REL 99 MODE, ANT 4

Date:	2025-05-05
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 2
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.728500	57.05	Pk	33.3	-95.2	-47.3	-52.10	-13	-39.10	H
3.701000	55.94	Pk	33.2	-95.2	-47.2	-53.26	-13	-40.26	V
5.547000	56.16	Pk	34.4	-95.2	-47.4	-52.04	-13	-39.04	H
5.512500	55.5	Pk	34.5	-95.2	-47.2	-52.40	-13	-39.40	V
7.406500	53.79	Pk	35.8	-95.2	-45.9	-51.46	-13	-38.46	H
7.394500	55.34	Pk	35.8	-95.2	-45.7	-49.76	-13	-36.76	V
Mid Channel, 1880MHz									
3.759500	55.88	Pk	33.4	-95.2	-47.2	-53.12	-13	-40.12	H
3.744000	55.92	Pk	33.4	-95.2	-47.2	-53.08	-13	-40.08	V
5.634000	54.7	Pk	34.4	-95.2	-47.2	-53.30	-13	-40.30	H
5.601500	56.1	Pk	34.4	-95.2	-47.2	-51.90	-13	-38.90	V
7.535500	55.64	Pk	35.9	-95.2	-45.9	-49.51	-13	-36.51	H
7.512500	53.87	Pk	35.8	-95.2	-46.1	-51.58	-13	-38.58	V
High Channel, 1907.6MHz									
3.821000	55.26	Pk	33.5	-95.2	-47.0	-53.44	-13	-40.44	H
3.796500	55.11	Pk	33.4	-95.2	-46.7	-53.39	-13	-40.39	V
5.733500	55.16	Pk	34.6	-95.2	-46.7	-52.09	-13	-39.09	H
5.722500	55.36	Pk	34.6	-95.2	-46.8	-52.04	-13	-39.04	V
7.630500	54.2	Pk	35.9	-95.2	-44.9	-50.00	-13	-37.00	H
7.621000	54.62	Pk	35.9	-95.2	-44.9	-49.58	-13	-36.58	V

REL 99 MODE, ANT 2

Date:	2025-05-06
Test Engineer:	32545
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 2
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.698000	55.78	Pk	33.2	-95.2	-47.2	-53.42	-13	-40.42	H
3.713500	55.71	Pk	33.3	-95.2	-47.3	-53.49	-13	-40.49	V
5.540000	56.41	Pk	34.4	-95.2	-47.5	-51.89	-13	-38.89	H
5.559500	55.62	Pk	34.4	-95.2	-47.3	-52.43	-13	-39.43	V
7.387000	54.46	Pk	35.8	-95.2	-45.7	-50.64	-13	-37.64	H
7.429000	54.94	Pk	35.8	-95.2	-46.1	-50.56	-13	-37.56	V
Mid Channel, 1880MHz									
3.751500	55.54	Pk	33.4	-95.2	-47.2	-53.41	-13	-40.41	H
3.769500	55.65	Pk	33.4	-95.2	-47.0	-53.15	-13	-40.15	V
5.651500	55.55	Pk	34.4	-95.2	-47.1	-52.35	-13	-39.35	H
5.638000	56.76	Pk	34.4	-95.2	-47.1	-51.14	-13	-38.14	V
7.527000	54.57	Pk	35.8	-95.2	-46.0	-50.83	-13	-37.83	H
7.495500	54.81	Pk	35.8	-95.2	-46.4	-50.94	-13	-37.94	V
High Channel, 1907.6MHz									
3.808500	55.24	Pk	33.5	-95.2	-46.9	-53.36	-13	-40.36	H
3.823500	55.83	Pk	33.5	-95.2	-47.0	-52.87	-13	-39.87	V
5.744000	55.44	Pk	34.6	-95.2	-46.7	-51.86	-13	-38.86	H
5.734500	55.74	Pk	34.6	-95.2	-46.7	-51.56	-13	-38.56	V
7.613500	54.24	Pk	35.9	-95.2	-44.9	-49.96	-13	-36.96	H
7.618000	54.78	Pk	35.9	-95.2	-45.0	-49.52	-13	-36.52	V

REL 99 MODE, ANT 1

Date:	2025-05-06
Test Engineer:	32545
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 2
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.717000	56.35	Pk	33.3	-95.2	-47.2	-52.75	-13	-39.75	H
3.718000	55.66	Pk	33.3	-95.2	-47.2	-53.44	-13	-40.44	V
5.555000	55.81	Pk	34.4	-95.2	-47.4	-52.39	-13	-39.39	H
5.553000	55.77	Pk	34.4	-95.2	-47.3	-52.33	-13	-39.33	V
7.384000	54.19	Pk	35.8	-95.2	-45.7	-50.91	-13	-37.91	H
7.390500	53.89	Pk	35.8	-95.2	-45.7	-51.21	-13	-38.21	V
Mid Channel, 1880MHz									
3.750000	56.17	Pk	33.4	-95.2	-47.1	-52.73	-13	-39.73	H
3.770500	56.83	Pk	33.4	-95.2	-47.0	-51.97	-13	-38.97	V
5.640500	55.11	Pk	34.4	-95.2	-47.3	-52.94	-13	-39.94	H
5.638000	54.57	Pk	34.4	-95.2	-47.1	-53.33	-13	-40.33	V
7.519000	54.8	Pk	35.8	-95.2	-46.0	-50.60	-13	-37.60	H
7.517500	54.78	Pk	35.8	-95.2	-46.1	-50.67	-13	-37.67	V
High Channel, 1907.6MHz									
3.816500	55.79	Pk	33.5	-95.2	-47.0	-52.91	-13	-39.91	H
3.828500	54.74	Pk	33.5	-95.2	-47.0	-53.91	-13	-40.91	V
5.705500	56.04	Pk	34.5	-95.2	-47.1	-51.71	-13	-38.71	H
5.730500	55.89	Pk	34.6	-95.2	-46.8	-51.46	-13	-38.46	V
7.651500	53.66	Pk	35.9	-95.2	-45.2	-50.79	-13	-37.79	H
7.633000	54.42	Pk	35.9	-95.2	-44.9	-49.78	-13	-36.78	V

HSDPA MODE, ANT 3

Date:	2025-05-05
Test Engineer:	32545 SB
Configuration:	EUT Only
Mode:	WCDMA HSDPA Band 2
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.702500	55.54	Pk	33.2	-95.2	-47.2	-53.66	-13	-40.66	H
3.692500	55.57	Pk	33.2	-95.2	-47.2	-53.58	-13	-40.58	V
5.566000	55.12	Pk	34.4	-95.2	-47.2	-52.88	-13	-39.88	H
5.562000	55.87	Pk	34.4	-95.2	-47.2	-52.13	-13	-39.13	V
7.412500	55.46	Pk	35.8	-95.2	-46	-49.94	-13	-36.94	H
7.422500	54.35	Pk	35.8	-95.2	-46.2	-51.25	-13	-38.25	V
Mid Channel, 1880MHz									
3.750000	55.47	Pk	33.4	-95.2	-47.1	-53.43	-13	-40.43	H
3.756500	57.12	Pk	33.4	-95.2	-47.1	-51.73	-13	-38.73	V
5.665500	55.13	Pk	34.5	-95.2	-46.9	-52.47	-13	-39.47	H
5.665000	55.3	Pk	34.5	-95.2	-46.9	-52.3	-13	-39.30	V
7.500000	54.65	Pk	35.8	-95.2	-46.2	-50.95	-13	-37.95	H
7.510500	54.43	Pk	35.8	-95.2	-46.1	-51.07	-13	-38.07	V
High Channel, 1907.6MHz									
3.805000	54.99	Pk	33.5	-95.2	-46.8	-53.51	-13	-40.51	H
3.801000	56.18	Pk	33.4	-95.2	-46.7	-52.32	-13	-39.32	V
5.708500	54.92	Pk	34.6	-95.2	-47.0	-52.68	-13	-39.68	H
5.729000	55.13	Pk	34.6	-95.2	-46.7	-52.17	-13	-39.17	V
7.637000	54.85	Pk	35.9	-95.2	-45.0	-49.45	-13	-36.45	H
7.629500	54.4	Pk	35.9	-95.2	-44.9	-49.8	-13	-36.80	V

HSDPA MODE, ANT 4

Date:	2025-05-06
Test Engineer:	111411
Configuration:	EUT Only
Mode:	HSDPA Band 2
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.697500	55.94	Pk	33.2	-95.2	-47.3	-53.31	-13	-40.31	H
3.677500	55.66	Pk	33.2	-95.2	-47.2	-53.54	-13	-40.54	V
5.543000	55.75	Pk	34.4	-95.2	-47.4	-52.45	-13	-39.45	H
5.526500	55.71	Pk	34.4	-95.2	-47.3	-52.34	-13	-39.34	V
7.403000	54.69	Pk	35.8	-95.2	-45.8	-50.51	-13	-37.51	H
7.372000	54.75	Pk	35.8	-95.2	-45.8	-50.45	-13	-37.45	V
Mid Channel, 1880MHz									
3.753000	55.86	Pk	33.4	-95.2	-47.1	-53.04	-13	-40.04	H
3.724500	55.80	Pk	33.3	-95.2	-47.2	-53.25	-13	-40.25	V
5.634500	55.55	Pk	34.4	-95.2	-47.2	-52.40	-13	-39.40	H
5.621500	55.56	Pk	34.4	-95.2	-47.1	-52.34	-13	-39.34	V
7.522000	54.58	Pk	35.8	-95.2	-46.0	-50.82	-13	-37.82	H
7.502000	54.68	Pk	35.8	-95.2	-46.2	-50.92	-13	-37.92	V
High Channel, 1907.6MHz									
3.810000	56.56	Pk	33.5	-95.2	-46.8	-51.94	-13	-38.94	H
3.803000	54.76	Pk	33.4	-95.2	-46.7	-53.74	-13	-40.74	V
5.713000	55.27	Pk	34.6	-95.2	-47.1	-52.43	-13	-39.43	H
5.710000	54.73	Pk	34.6	-95.2	-47.1	-52.97	-13	-39.97	V
7.636500	54.22	Pk	35.9	-95.2	-45.0	-50.08	-13	-37.08	H
7.628500	53.85	Pk	35.9	-95.2	-44.9	-50.35	-13	-37.35	V

HSDPA MODE, ANT 2

Date:	5-6-2025
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA HSDPA Band 2
Chamber #:	03_RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.713500	55.27	Pk	33.3	-95.2	-47.3	-53.93	-13	-40.93	H
3.705500	56.87	Pk	33.2	-95.2	-47.3	-52.43	-13	-39.43	V
7.406500	53.97	Pk	35.8	-95.2	-45.9	-51.28	-13	-38.28	H
7.407500	53.93	Pk	35.8	-95.2	-46.0	-51.42	-13	-38.42	V
5.560000	54.94	Pk	34.4	-95.2	-47.2	-53.06	-13	-40.06	H
5.561000	56.13	Pk	34.4	-95.2	-47.2	-51.87	-13	-38.87	V
Mid Channel, 1880MHz									
3.761500	55.65	Pk	33.4	-95.2	-47.1	-53.30	-13	-40.3	H
3.753500	55.12	Pk	33.4	-95.2	-47.1	-53.78	-13	-40.78	V
7.513500	54.75	Pk	35.8	-95.2	-46.1	-50.70	-13	-37.7	H
7.490000	54.25	Pk	35.8	-95.2	-46.3	-51.45	-13	-38.45	V
5.629000	55.55	Pk	34.4	-95.2	-47.1	-52.35	-13	-39.33	H
5.610500	55.67	Pk	34.4	-95.2	-47.2	-52.33	-13	-39.35	V
High Channel, 1907.6MHz									
3.819000	55.95	Pk	33.5	-95.2	-46.9	-52.65	-13	-39.65	H
3.823000	55.04	Pk	33.5	-95.2	-47.0	-53.66	-13	-40.66	V
7.627000	54.78	Pk	35.9	-95.2	-45.0	-49.52	-13	-36.52	H
7.632000	54.05	Pk	35.9	-95.2	-44.9	-50.15	-13	-37.15	V
5.723000	55.5	Pk	34.6	-95.2	-46.8	-51.90	-13	-38.90	H
5.719500	56.01	Pk	34.6	-95.2	-47.0	-51.59	-13	-38.59	V

HSDPA MODE, ANT 1

Date:	5-7-2025
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA HSDPA Band 2
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.708500	55.89	Pk	33.3	-95.2	-47.2	-53.21	-13	-40.21	H
3.724000	55.73	Pk	33.3	-95.2	-47.1	-53.27	-13	-40.27	V
7.417500	54.23	Pk	35.8	-95.2	-46.1	-51.22	-13	-38.22	H
7.401000	53.79	Pk	35.8	-95.2	-45.8	-51.41	-13	-38.41	V
5.552000	55.9	Pk	34.4	-95.2	-47.4	-52.30	-13	-39.30	H
5.552500	55.84	Pk	34.4	-95.2	-47.4	-52.31	-13	-39.31	V
Mid Channel, 1880MHz									
3.759500	55.3	Pk	33.4	-95.2	-47.2	-53.70	-13	-40.70	H
3.755000	55.37	Pk	33.4	-95.2	-47.1	-53.53	-13	-40.53	V
7.526500	54.69	Pk	35.8	-95.2	-46.0	-50.71	-13	-37.71	H
7.523500	55.25	Pk	35.8	-95.2	-46.1	-50.20	-13	-37.20	V
5.637000	54.79	Pk	34.4	-95.2	-47.1	-53.11	-13	-40.11	H
5.613000	54.67	Pk	34.4	-95.2	-47.2	-53.33	-13	-40.33	V
High Channel, 1907.6MHz									
3.829000	55.77	Pk	33.5	-95.2	-47.0	-52.93	-13	-39.93	H
3.838000	55.51	Pk	33.5	-95.2	-47.0	-53.19	-13	-40.19	V
7.615500	53.9	Pk	35.9	-95.2	-44.9	-50.30	-13	-37.30	H
7.616000	53.37	Pk	35.9	-95.2	-44.9	-50.83	-13	-37.83	V
5.717000	55.01	Pk	34.6	-95.2	-47.0	-52.59	-13	-39.59	H
5.720500	55.28	Pk	34.6	-95.2	-47.0	-52.32	-13	-39.32	V

10.1.5. WCDMA BAND 4

REL 99 MODE, ANT 3

Date:	2025-05-05
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 4
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4 MHz									
5.134000	56.85	Pk	34.2	-95.2	-47.7	-51.85	-13	-38.85	H
5.103000	55.96	Pk	34.1	-95.2	-47.8	-52.94	-13	-39.94	V
3.440000	55.92	Pk	32.8	-95.2	-46.8	-53.28	-13	-40.28	H
3.409500	54.71	Pk	32.8	-95.2	-46.9	-54.54	-13	-41.54	V
6.857500	54.22	Pk	35.8	-95.2	-45.2	-50.38	-13	-37.38	H
6.855500	53.42	Pk	35.8	-95.2	-45.2	-51.13	-13	-38.13	V
Mid Channel, 1732.6MHz									
3.476500	55.25	Pk	32.9	-95.2	-46.85	-53.90	-13	-40.90	H
3.455500	54.83	Pk	32.8	-95.2	-46.7	-54.27	-13	-41.27	V
5.196000	55.46	Pk	34.3	-95.2	-47.7	-53.14	-13	-40.14	H
5.163500	55.97	Pk	34.2	-95.2	-47.9	-52.93	-13	-39.93	V
6.922000	54.98	Pk	35.8	-95.2	-46.1	-50.52	-13	-37.52	H
6.923500	54.15	Pk	35.8	-95.2	-46.1	-51.35	-13	-38.35	V
High Channel, 1752.6MHz									
3.507000	56.27	Pk	32.9	-95.2	-46.8	-52.83	-13	-39.83	H
3.492000	54.87	Pk	32.9	-95.2	-46.8	-54.23	-13	-41.23	V
5.251000	55.74	Pk	34.4	-95.2	-47.7	-52.76	-13	-39.76	H
5.220000	56.22	Pk	34.4	-95.2	-47.8	-52.38	-13	-39.38	V
6.999000	54.86	Pk	35.8	-95.2	-46.1	-50.64	-13	-37.64	H
6.968500	54.15	Pk	35.8	-95.2	-46.2	-51.40	-13	-38.40	V

REL 99 MODE, ANT 4

Date:	2025-05-05
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 4
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4 MHz									
5.137000	55.64	Pk	34.2	-95.2	-47.8	-53.16	-13	-40.16	H
5.111000	56.3	Pk	34.1	-95.2	-47.8	-52.60	-13	-39.60	V
3.424500	55.7	Pk	32.8	-95.2	-46.8	-53.50	-13	-40.50	H
3.405500	56.18	Pk	32.8	-95.2	-47.0	-53.17	-13	-40.17	V
6.845000	54.74	Pk	35.8	-95.2	-45.4	-50.06	-13	-37.06	H
6.800000	54.43	Pk	35.8	-95.2	-44.9	-49.87	-13	-36.87	V
Mid Channel, 1732.6MHz									
3.453500	55.97	Pk	32.8	-95.2	-46.8	-53.18	-13	-40.18	H
3.434500	55.87	Pk	32.8	-95.2	-46.8	-53.33	-13	-40.33	V
5.195000	57.55	Pk	34.3	-95.2	-47.6	-50.95	-13	-37.95	H
5.195000	60.03	Pk	34.3	-95.2	-47.6	-48.47	-13	-35.47	V
6.932000	54.43	Pk	35.8	-95.2	-46.1	-51.07	-13	-38.07	H
6.906500	54.65	Pk	35.8	-95.2	-46.1	-50.80	-13	-37.80	V
High Channel, 1752.6MHz									
3.500500	55.4	Pk	32.9	-95.2	-47.0	-53.85	-13	-40.85	H
3.509500	54.86	Pk	32.9	-95.2	-46.8	-54.19	-13	-41.19	V
5.259000	56.49	Pk	34.5	-95.2	-47.9	-52.11	-13	-39.11	H
5.251000	56.64	Pk	34.4	-95.2	-47.7	-51.86	-13	-38.86	V
7.005000	54.54	Pk	35.8	-95.2	-46.0	-50.86	-13	-37.86	H
7.017000	54.26	Pk	35.8	-95.2	-45.9	-51.04	-13	-38.04	V

REL 99 MODE, ANT 2

Date:	2025-05-06
Test Engineer:	32545
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 4
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4 MHz									
5.148500	55.1	Pk	34.2	-95.2	-47.9	-53.75	-13	-40.75	H
5.137000	56.31	Pk	34.2	-95.2	-47.8	-52.49	-13	-39.49	V
3.428000	55.55	Pk	32.8	-95.2	-46.9	-53.75	-13	-40.75	H
3.425000	56.66	Pk	32.8	-95.2	-46.8	-52.54	-13	-39.54	V
6.835000	53.73	Pk	35.8	-95.2	-45.4	-51.07	-13	-38.07	H
6.855000	54.17	Pk	35.8	-95.2	-45.2	-50.43	-13	-37.43	V
Mid Channel, 1732.6MHz									
3.470500	54.7	Pk	32.9	-95.2	-46.8	-54.40	-13	-41.40	H
3.476500	54.61	Pk	32.9	-95.2	-46.9	-54.54	-13	-41.54	V
5.196500	56.34	Pk	34.3	-95.2	-47.7	-52.26	-13	-39.26	H
5.204500	56.49	Pk	34.3	-95.2	-47.8	-52.16	-13	-39.16	V
6.928500	55.43	Pk	35.8	-95.2	-46.2	-50.12	-13	-37.12	H
6.929500	54.49	Pk	35.8	-95.2	-46.2	-51.11	-13	-38.11	V
High Channel, 1752.6MHz									
3.496500	55.56	Pk	32.9	-95.2	-46.8	-53.54	-13	-40.54	H
3.511500	55.04	Pk	32.9	-95.2	-46.7	-53.91	-13	-40.91	V
5.260500	55.71	Pk	34.5	-95.2	-47.9	-52.89	-13	-39.89	H
5.246000	56.45	Pk	34.4	-95.2	-47.9	-52.25	-13	-39.25	V
7.001500	54.32	Pk	35.8	-95.2	-46.1	-51.13	-13	-38.13	H
7.022000	54.65	Pk	35.8	-95.2	-45.9	-50.65	-13	-37.65	V

REL 99 MODE, ANT 1

Date:	2025-05-06
Test Engineer:	32545
Configuration:	EUT Only
Mode:	WCDMA REL 99 Band 4
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4 MHz									
5.133500	55.78	Pk	34.2	-95.2	-47.7	-52.87	-13	-39.87	H
5.134000	56.28	Pk	34.2	-95.2	-47.7	-52.42	-13	-39.42	V
3.430000	55.9	Pk	32.8	-95.2	-46.9	-53.40	-13	-40.40	H
3.417500	55.92	Pk	32.8	-95.2	-46.9	-53.33	-13	-40.33	V
6.855500	54.28	Pk	35.8	-95.2	-45.2	-50.27	-13	-37.27	H
6.838500	54.87	Pk	35.8	-95.2	-45.4	-49.93	-13	-36.93	V
Mid Channel, 1732.6MHz									
3.440500	55.62	Pk	32.8	-95.2	-46.8	-53.53	-13	-40.53	H
3.445000	55.54	Pk	32.8	-95.2	-46.8	-53.66	-13	-40.66	V
5.210000	56.04	Pk	34.4	-95.2	-47.7	-52.46	-13	-39.46	H
5.220000	56.56	Pk	34.4	-95.2	-47.8	-52.04	-13	-39.04	V
6.922500	54.79	Pk	35.8	-95.2	-46.1	-50.71	-13	-37.71	H
6.928500	54.86	Pk	35.8	-95.2	-46.2	-50.69	-13	-37.69	V
High Channel, 1752.6MHz									
3.507000	55.11	Pk	32.9	-95.2	-46.8	-53.99	-13	-40.99	H
3.493500	54.96	Pk	32.9	-95.2	-46.9	-54.24	-13	-41.24	V
5.247000	56.66	Pk	34.4	-95.2	-47.9	-52.04	-13	-39.04	H
5.224500	56.2	Pk	34.4	-95.2	-47.9	-52.50	-13	-39.50	V
7.002500	54.58	Pk	35.8	-95.2	-46.0	-50.82	-13	-37.82	H
6.991000	55	Pk	35.8	-95.2	-46.1	-50.50	-13	-37.50	V

HSDPA MODE, ANT 3

Date:	2025-05-05
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA HSDPA Band 4
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4 MHz									
5.134000	56.85	Pk	34.2	-95.2	-47.7	-51.85	-13	-38.85	H
5.106500	57.2	Pk	34.1	-95.2	-47.8	-51.70	-13	-38.70	V
3.416500	55.06	Pk	32.8	-95.2	-46.9	-54.19	-13	-41.19	H
3.401000	56.86	Pk	32.8	-95.2	-46.9	-52.44	-13	-39.44	V
6.837500	54.79	Pk	35.8	-95.2	-45.5	-50.06	-13	-37.06	H
6.809500	54.74	Pk	35.8	-95.2	-45.0	-49.66	-13	-36.66	V
Mid Channel, 1732.6MHz									
3.470500	55.41	Pk	32.9	-95.2	-46.8	-53.69	-13	-40.69	H
3.460500	55.58	Pk	32.9	-95.2	-46.8	-53.47	-13	-40.47	V
5.180000	55.86	Pk	34.3	-95.2	-47.8	-52.84	-13	-39.84	H
5.185500	55.47	Pk	34.3	-95.2	-47.8	-53.23	-13	-40.23	V
6.928500	54.48	Pk	35.8	-95.2	-46.2	-51.07	-13	-38.07	H
6.913000	55.07	Pk	35.8	-95.2	-46.1	-50.43	-13	-37.43	V
High Channel, 1752.6MHz									
3.508500	55.75	Pk	32.9	-95.2	-46.8	-53.35	-13	-40.35	H
3.511000	55.13	Pk	32.9	-95.2	-46.7	-53.87	-13	-40.87	V
5.257500	56.56	Pk	34.5	-95.2	-47.9	-51.99	-13	-38.99	H
5.255500	56.84	Pk	34.5	-95.2	-47.9	-51.71	-13	-38.71	V
7.036000	55.25	Pk	35.8	-95.2	-45.4	-49.55	-13	-36.55	H
6.990500	55.41	Pk	35.8	-95.2	-46.1	-50.09	-13	-37.09	V

HSDPA MODE, ANT 4

Date:	2025-05-06
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA HSDPA Band 4
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4 MHz									
5.138500	55.52	Pk	34.2	-95.2	-47.8	-53.23	-13	-40.23	H
5.129000	55.46	Pk	34.2	-95.2	-47.7	-53.24	-13	-40.24	V
3.439000	55.15	Pk	32.8	-95.2	-46.8	-54.05	-13	-41.05	H
3.422500	55.96	Pk	32.8	-95.2	-47.0	-53.39	-13	-40.39	V
6.836000	53.69	Pk	35.8	-95.2	-45.4	-51.11	-13	-38.11	H
6.799000	53.36	Pk	35.8	-95.2	-44.9	-50.94	-13	-37.94	V
Mid Channel, 1732.6MHz									
3.482500	55.25	Pk	32.9	-95.2	-46.8	-53.85	-13	-40.85	H
3.465500	55.63	Pk	32.9	-95.2	-46.6	-53.27	-13	-40.27	V
5.182000	57.29	Pk	34.3	-95.2	-47.8	-51.41	-13	-38.41	H
5.156500	56.57	Pk	34.2	-95.2	-47.9	-52.33	-13	-39.33	V
6.940500	55.01	Pk	35.8	-95.2	-46.1	-50.49	-13	-37.49	H
6.941500	55.84	Pk	35.8	-95.2	-46.2	-49.71	-13	-36.71	V
High Channel, 1752.6MHz									
3.504000	55.63	Pk	32.9	-95.2	-46.7	-53.37	-13	-40.37	H
3.510000	55.86	Pk	32.9	-95.2	-46.7	-53.14	-13	-40.14	V
5.258000	55.73	Pk	34.5	-95.2	-47.8	-52.77	-13	-39.77	H
5.226500	55.78	Pk	34.4	-95.2	-47.8	-52.82	-13	-39.82	V
7.015500	54.05	Pk	35.8	-95.2	-46.0	-51.30	-13	-38.30	H
6.968000	54.5	Pk	35.8	-95.2	-46.2	-51.10	-13	-38.10	V

HSDPA MODE, ANT 2

Date:	2025-05-07
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA HSDPA Band 4
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4 MHz									
5.134500	55.59	Pk	34.2	-95.2	-47.8	-53.16	-13	-40.16	H
5.107000	55.97	Pk	34.1	-95.2	-47.8	-52.93	-13	-39.93	V
3.420500	55.73	Pk	32.8	-95.2	-46.9	-53.57	-13	-40.57	H
3.420500	55.87	Pk	32.8	-95.2	-46.9	-53.43	-13	-40.43	V
6.852000	54.88	Pk	35.8	-95.2	-45.2	-49.72	-13	-36.72	H
6.859500	54.68	Pk	35.8	-95.2	-45.2	-49.87	-13	-36.87	V
Mid Channel, 1732.6MHz									
3.465000	55.61	Pk	32.9	-95.2	-46.6	-53.29	-13	-40.29	H
3.448000	55.75	Pk	32.8	-95.2	-46.7	-53.35	-13	-40.35	V
5.204500	56.5	Pk	34.3	-95.2	-47.8	-52.15	-13	-39.15	H
5.178500	56.38	Pk	34.3	-95.2	-47.8	-52.32	-13	-39.32	V
6.939500	54.29	Pk	35.8	-95.2	-46.2	-51.26	-13	-38.26	H
6.967000	54.04	Pk	35.8	-95.2	-46.2	-51.56	-13	-38.56	V
High Channel, 1752.6MHz									
3.487500	55.78	Pk	32.9	-95.2	-46.9	-53.37	-13	-40.37	H
3.498750	55.09	Pk	32.9	-95.2	-46.9	-54.11	-13	-41.11	V
5.255500	56.78	Pk	34.5	-95.2	-47.9	-51.77	-13	-38.77	H
5.236500	55.57	Pk	34.4	-95.2	-47.9	-53.13	-13	-40.13	V
7.006000	54.24	Pk	35.8	-95.2	-45.9	-51.06	-13	-38.06	H
7.001000	53.79	Pk	35.8	-95.2	-46.1	-51.71	-13	-38.71	V

HSDPA MODE, ANT 1

Date:	2025-05-07
Test Engineer:	111411
Configuration:	EUT Only
Mode:	WCDMA HSDPA Band 4
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4 MHz									
5.124500	55.24	Pk	34.2	-95.2	-47.6	-53.36	-13	-40.36	H
5.104000	55.82	Pk	34.1	-95.2	-47.9	-53.18	-13	-40.18	V
3.424500	55.28	Pk	32.8	-95.2	-46.8	-53.92	-13	-40.92	H
3.420000	55.09	Pk	32.8	-95.2	-46.9	-54.21	-13	-41.21	V
6.856000	53.31	Pk	35.8	-95.2	-45.1	-51.19	-13	-38.19	H
6.839500	53.39	Pk	35.8	-95.2	-45.4	-51.41	-13	-38.41	V
Mid Channel, 1732.6MHz									
3.462500	55.01	Pk	32.9	-95.2	-46.7	-53.99	-13	-40.99	H
3.452500	55.06	Pk	32.8	-95.2	-46.8	-54.14	-13	-41.14	V
5.175000	55.32	Pk	34.3	-95.2	-47.8	-53.38	-13	-40.38	H
5.193500	55.83	Pk	34.3	-95.2	-47.8	-52.82	-13	-39.82	V
6.929500	54.57	Pk	35.8	-95.2	-46.2	-51.03	-13	-38.03	H
6.930500	53.89	Pk	35.8	-95.2	-46.2	-51.66	-13	-38.66	V
High Channel, 1752.6MHz									
3.493000	55.52	Pk	32.9	-95.2	-46.9	-53.68	-13	-40.68	H
3.442500	57.17	Pk	32.8	-95.2	-46.8	-51.98	-13	-38.98	V
5.249500	57.34	Pk	34.4	-95.2	-47.9	-51.31	-13	-38.31	H
5.220500	57.24	Pk	34.4	-95.2	-47.9	-51.41	-13	-38.41	V
7.018000	54.14	Pk	35.8	-95.2	-45.9	-51.16	-13	-38.16	H
6.994000	54.89	Pk	35.8	-95.2	-46.1	-50.61	-13	-37.61	V

11. SETUP PHOTOS

Refer to 15496249-EP1 for setup photos.

END OF REPORT