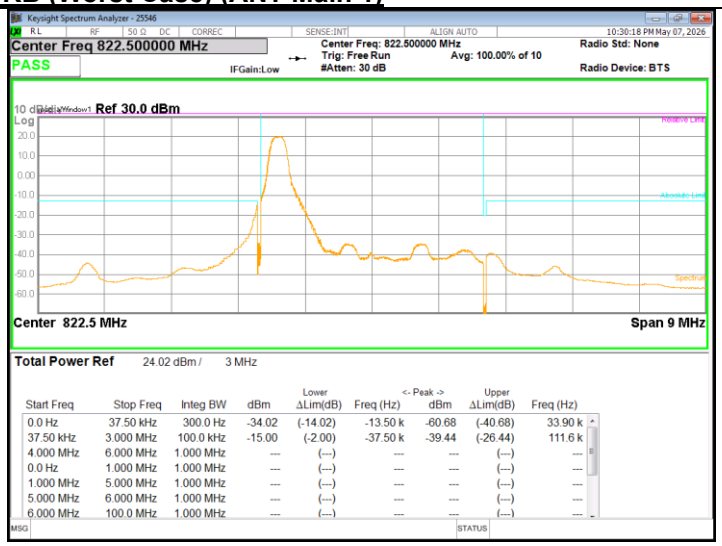
LTE Band 26 (Part 90) 1 RB (Worst Case) (ANT Main 1)

3 MHz QPSK 1RB offstet 0	 Mid channel

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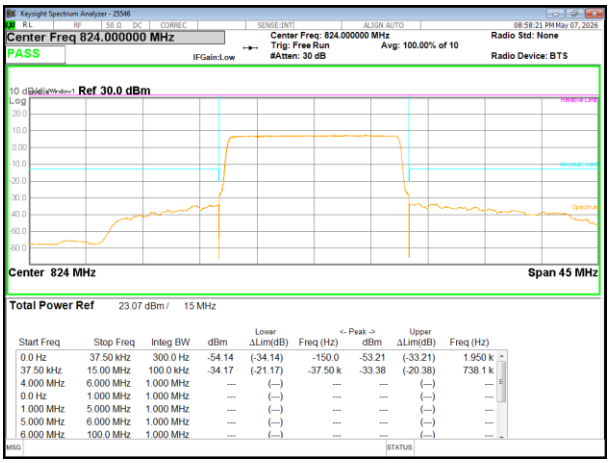
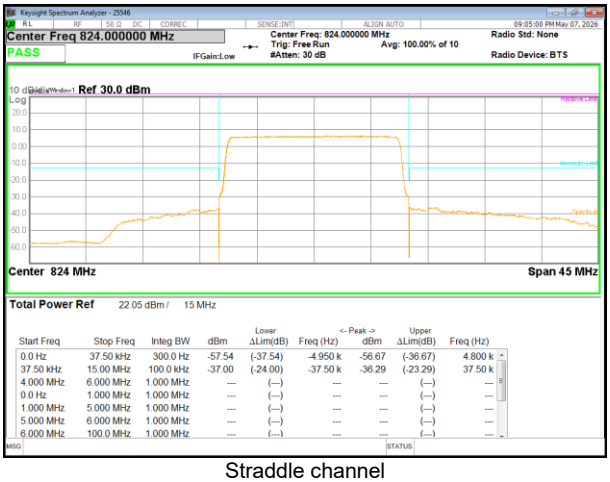
LTE Band 26 (Straddle) Full RB (ANT Main 1)

15 MHz QPSK FRB	 Straddle channel
15 MHz 16QAM FRB	 Straddle channel

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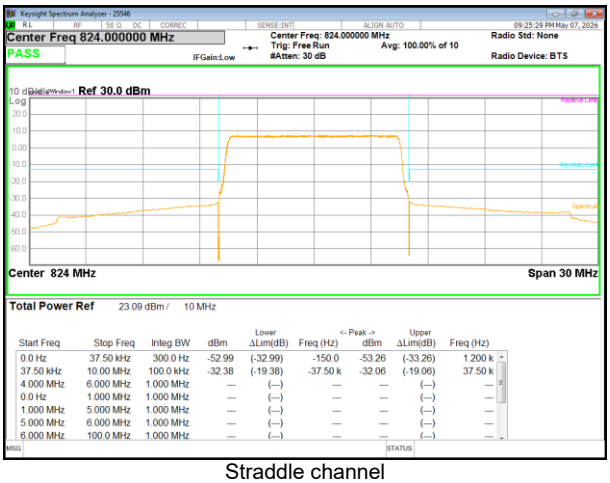
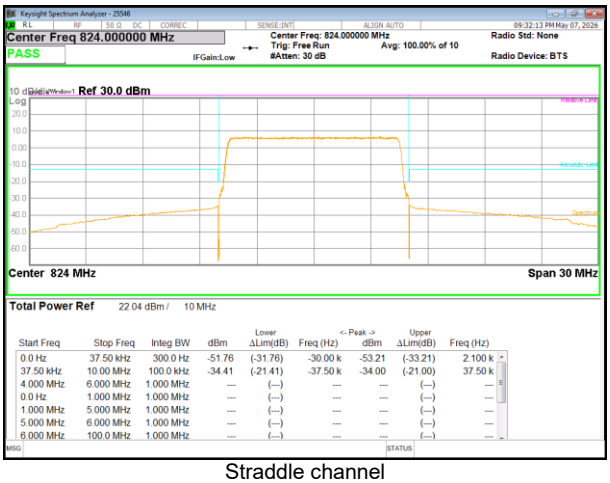
10 MHz QPSK FRB	 Straddle channel
10 MHz 16QAM FRB	 Straddle channel

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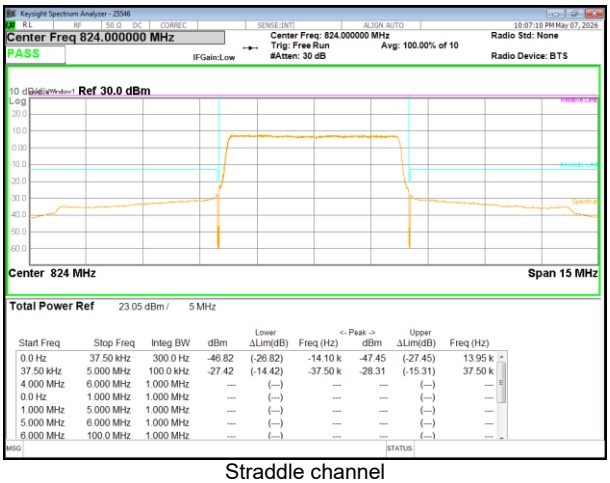
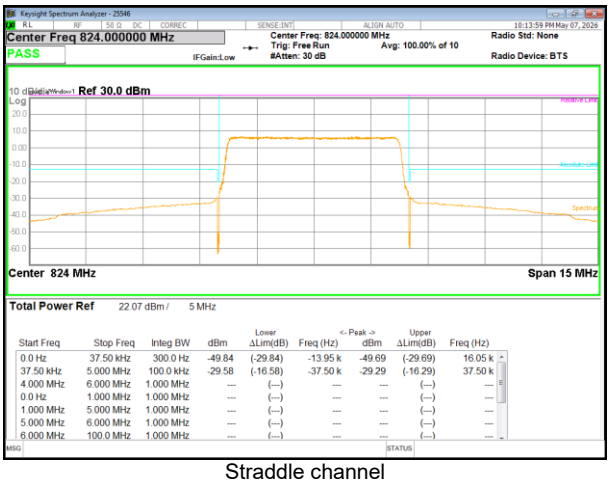
5 MHz QPSK FRB	 Straddle channel
5 MHz 16QAM FRB	 Straddle channel

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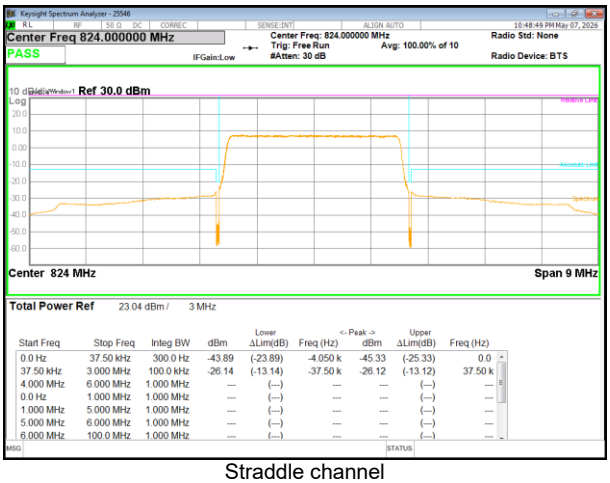
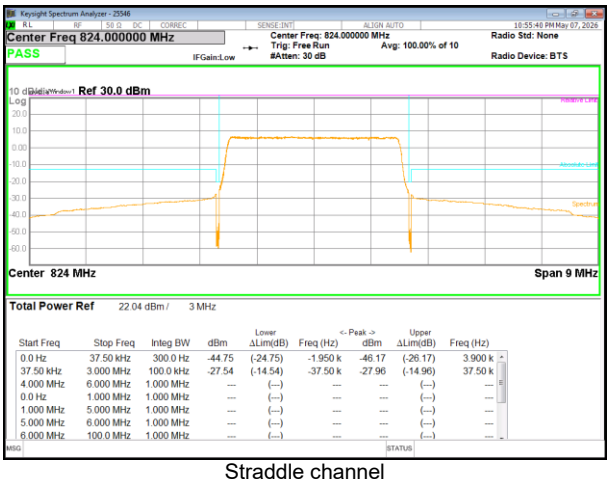
3 MHz QPSK FRB	 Straddle channel
3 MHz 16QAM FRB	 Straddle channel

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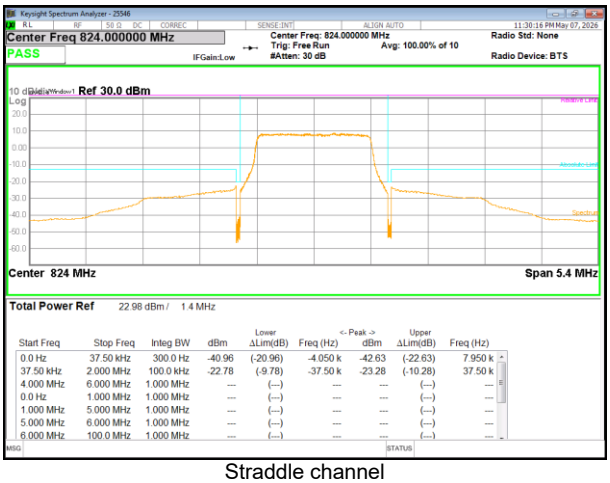
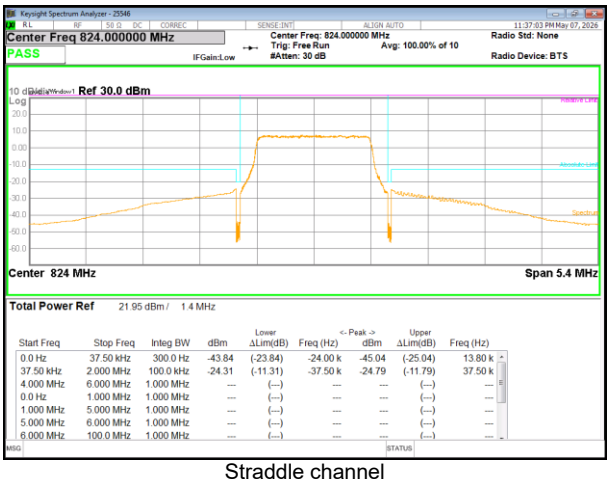
1.4 MHz QPSK FRB	 Straddle channel
1.4 MHz 16QAM FRB	 Straddle channel

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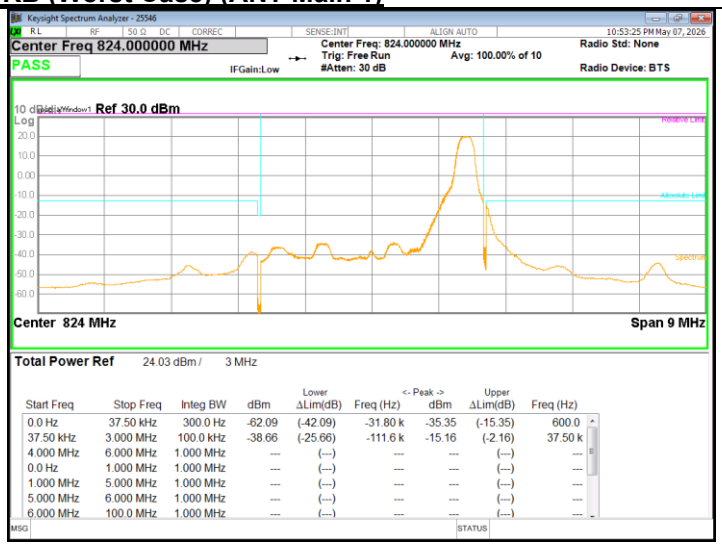
LTE Band 26 (Straddle) 1 RB (Worst Case) (ANT Main 1)

3 MHz QPSK 1RB offstet 14	 Straddle channel

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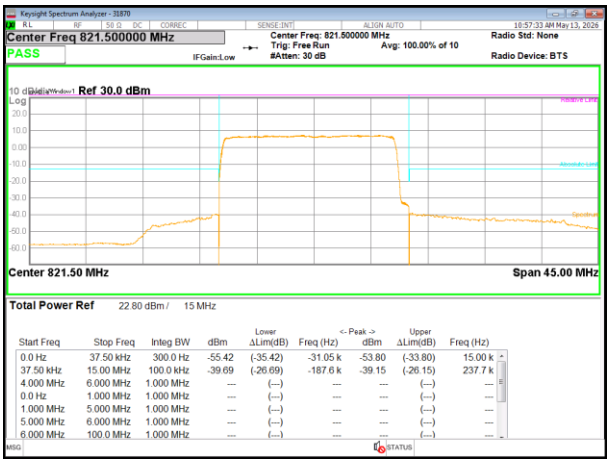
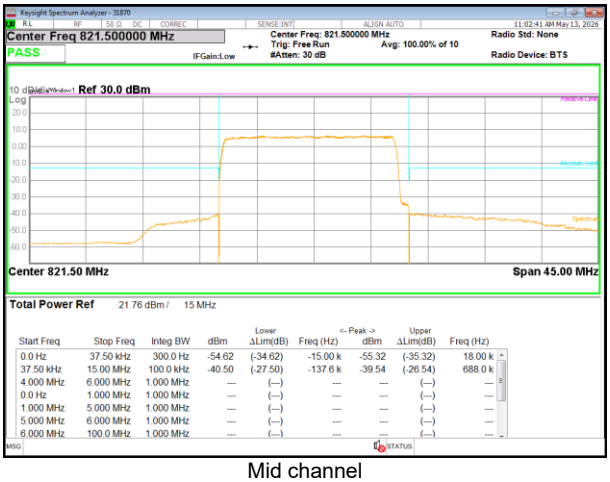
NR Band n26 (Part 90) Full RB (ANT Main 1)

15 MHz QPSK FRB	 Mid channel
15 MHz 16QAM FRB	 Mid channel

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10 MHz QPSK FRB	 Mid channel
10 MHz 16QAM FRB	 Mid channel

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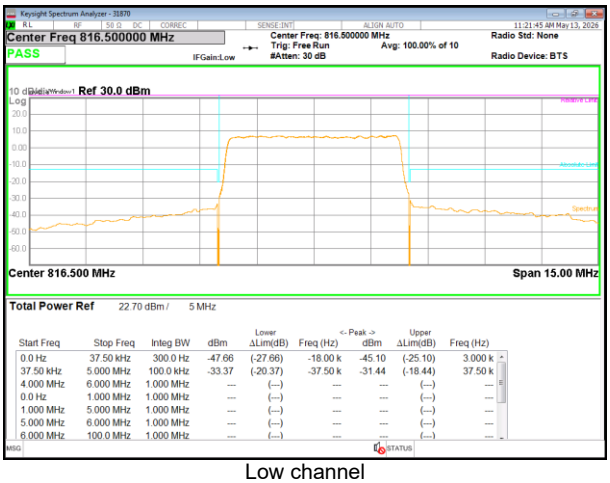
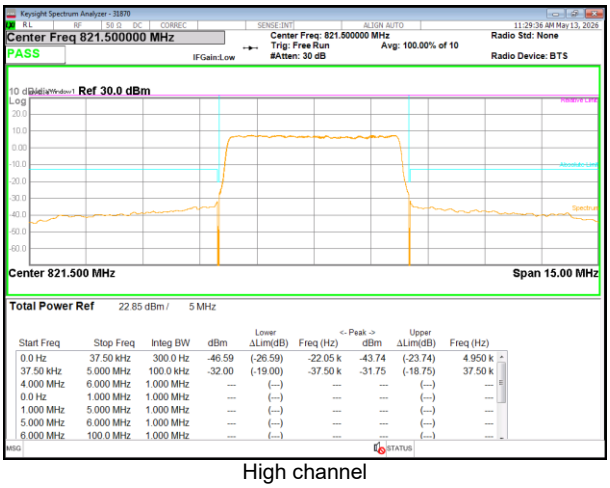
5 MHz QPSK FRB	 Low channel
	 High channel

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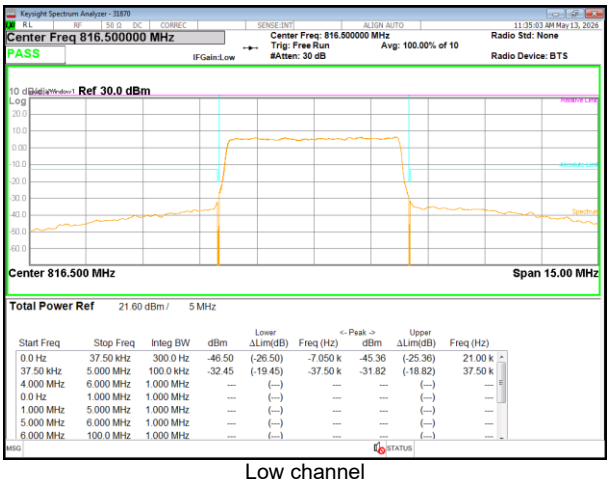
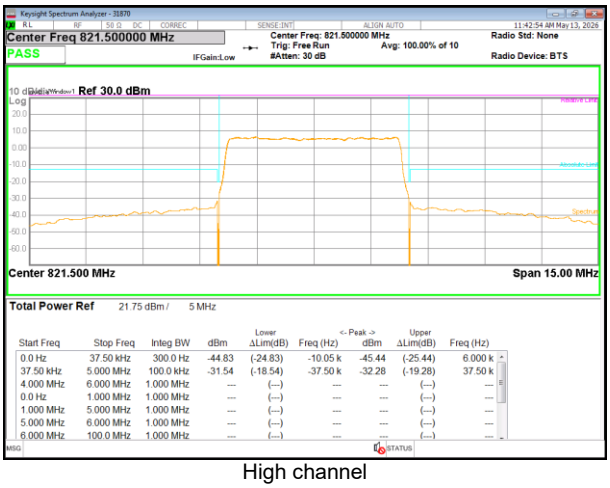
5 MHz 16QAM FRB	 Low channel
	 High channel

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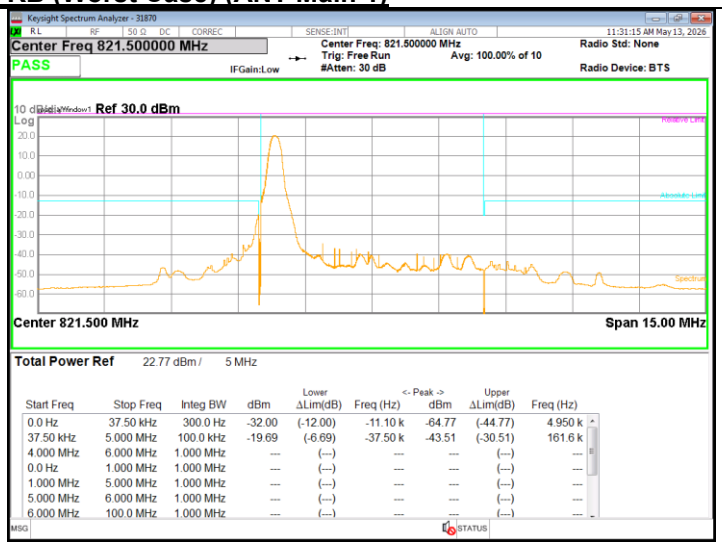
NR Band n26 (Part 90) 1 RB (Worst Case) (ANT Main 1)

5 MHz QPSK 1RB offstet 0	 Mid channel

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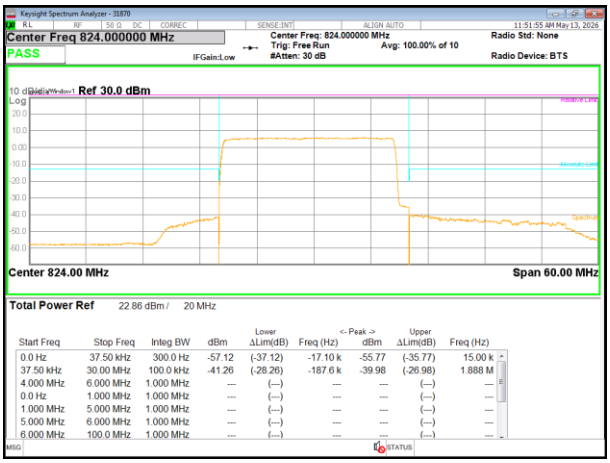
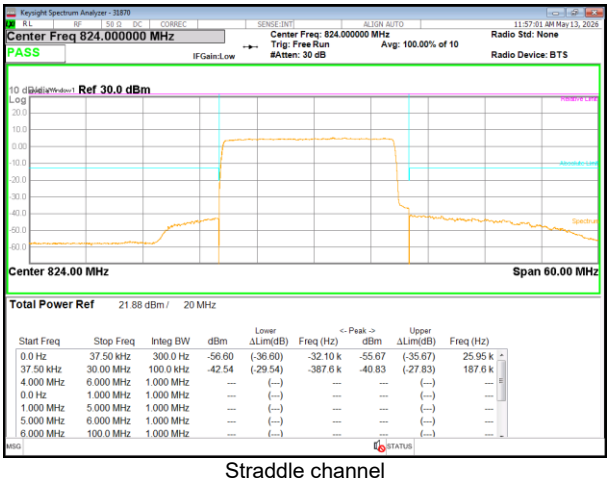
NR Band n26 (Straddle) Full RB (ANT Main 1)

20 MHz QPSK FRB	 Straddle channel
20 MHz 16QAM FRB	 Straddle channel

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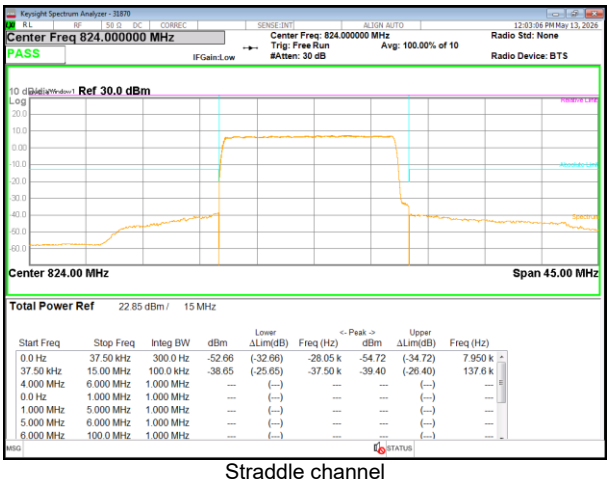
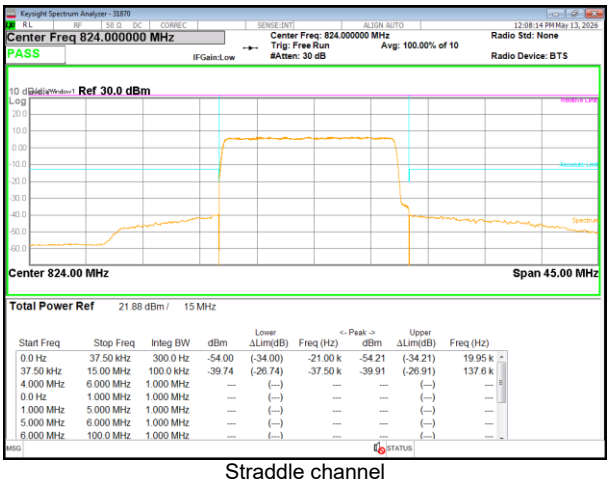
15 MHz QPSK FRB	 Straddle channel
15 MHz 16QAM FRB	 Straddle channel

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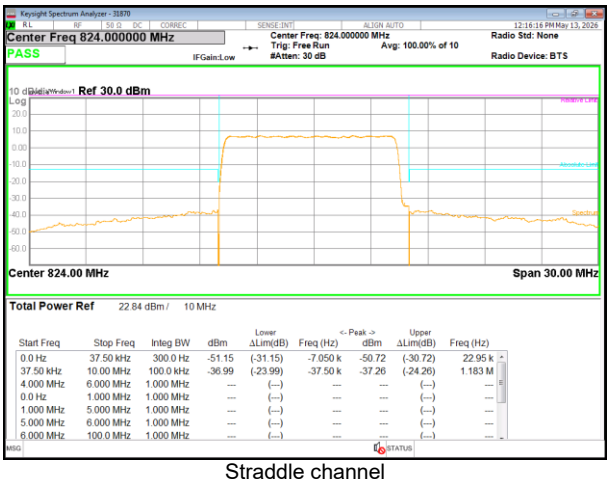
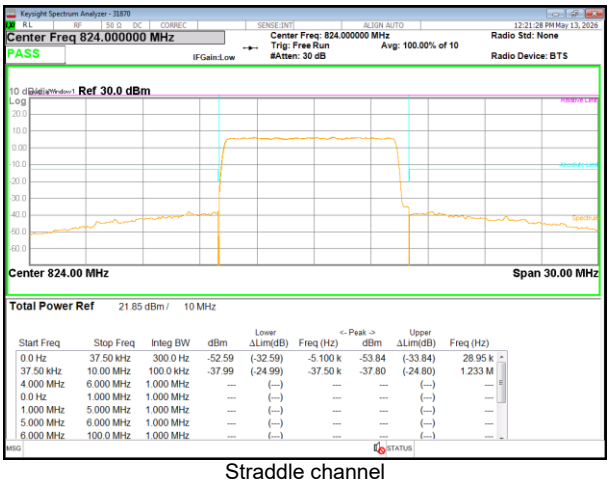
10 MHz QPSK FRB	 Straddle channel
10 MHz 16QAM FRB	 Straddle channel

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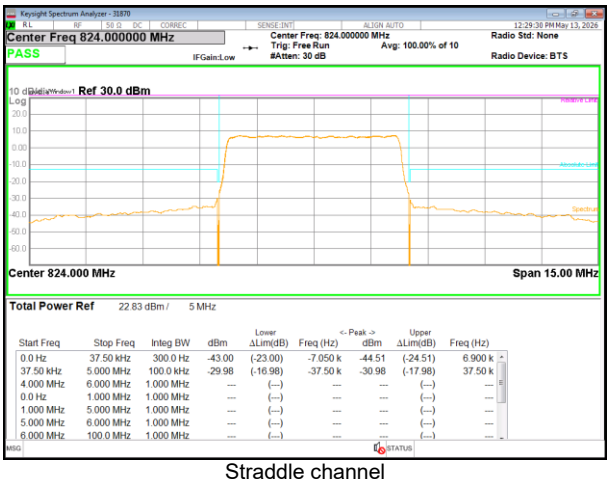
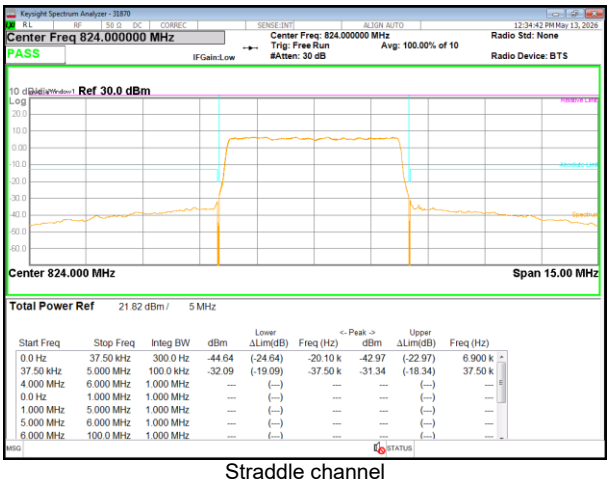
5 MHz QPSK FRB	 Straddle channel
5 MHz 16QAM FRB	 Straddle channel

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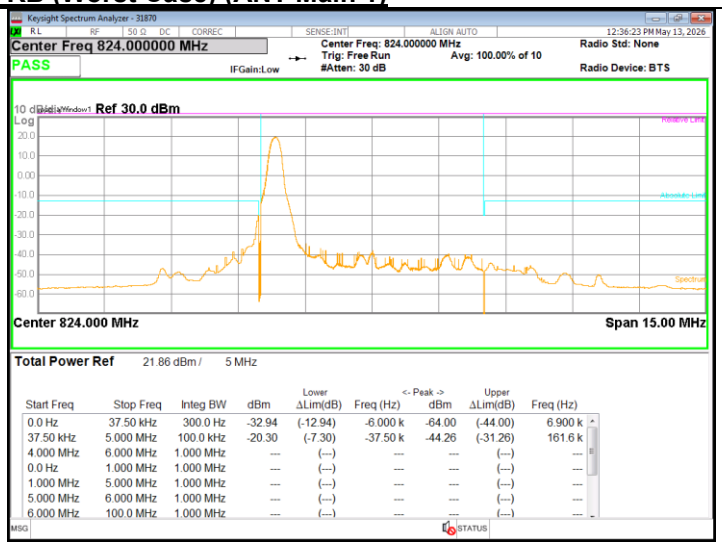
NR Band n26 (Straddle) 1 RB (Worst Case) (ANT Main 1)

5 MHz 16QAM 1RB offstet 0	 Straddle channel

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8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §90.543 and §90.691.

LIMITS

§22.917:
(a) 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.

§90.543:
(c) On any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least 43 + 10log (P) dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

§90.691(a):
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.(NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

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TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01
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.

a) Set the RBW = 100 kHz for emission below 1 GHz

   (Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)

b) Set VBW ≥ 3 × RBW;

c) Set span ≥ 1.5 times the OBW;

d) Sweep time = auto couple;

e) Detector = rms;

f) Ensure that the number of measurement points = Max (40001);

g) Trace mode = average;

NOTE1

UMTS: It was tested at REL 99 as worst case (the highst output power and density).
LTE: It was tested at 1RB QPSK as worst case (the highst output power and density).
5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations (π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

RESULTS

See the following pages.

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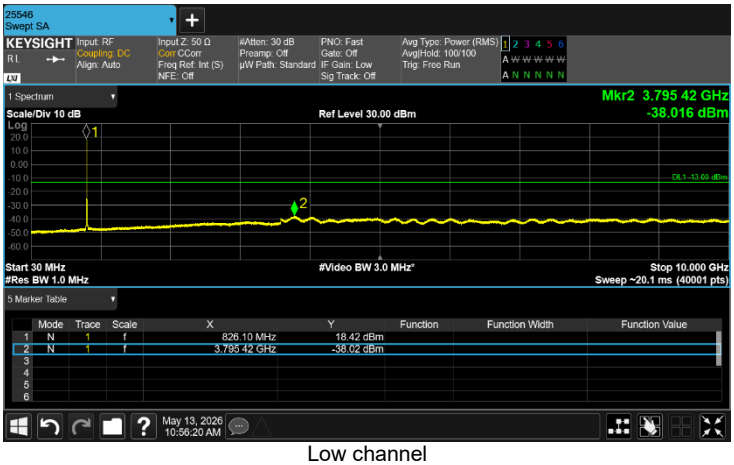
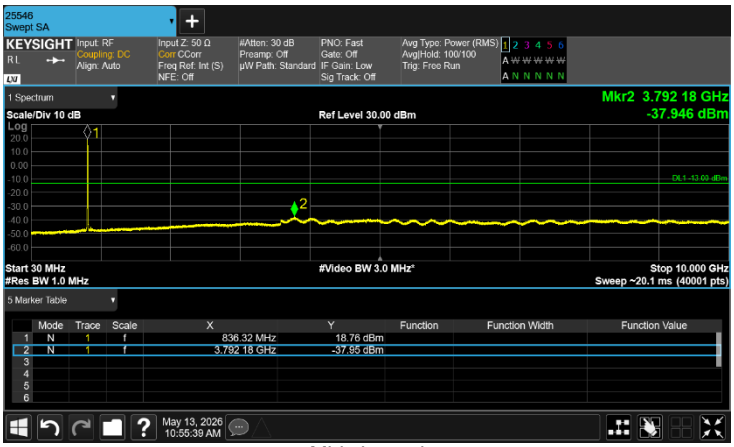
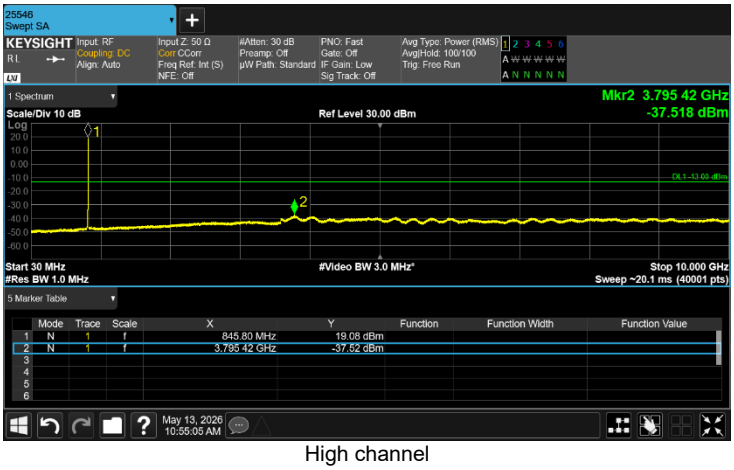
8.5.1. OUT OF BAND EMISSIONS RESULT

WCDMA Band 5 (ANT Main 1)

REL99
 Low channel
 Mid channel
 High channel

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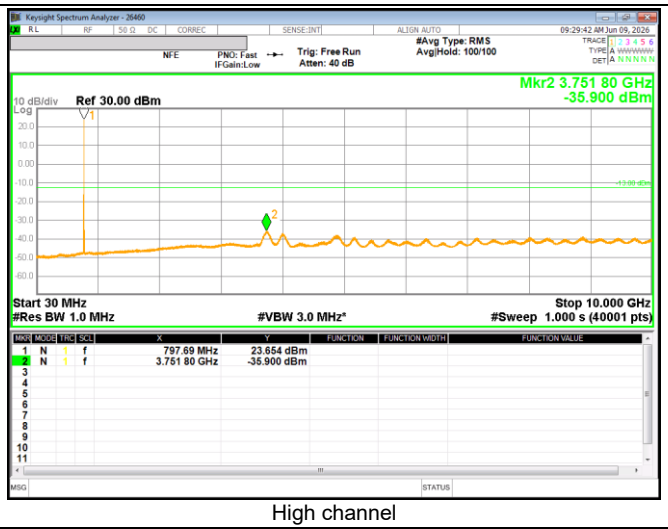
LTE Band 14 (ANT Main 1)

5 MHz QPSK
 Low channel
 Mid channel
 High channel

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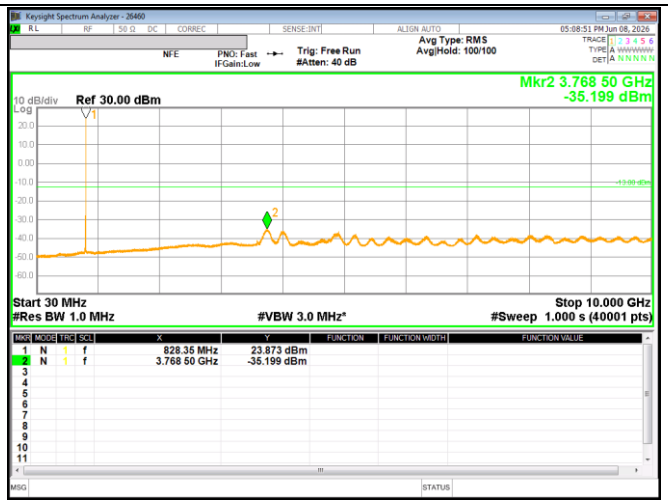
LTE Band 26 (Part 90) (ANT Main 1)

10 MHz QPSK
Mid channel

LTE Band 26 (Straddle) (ANT Main 1)

10 MHz QPSK

Straddle channel

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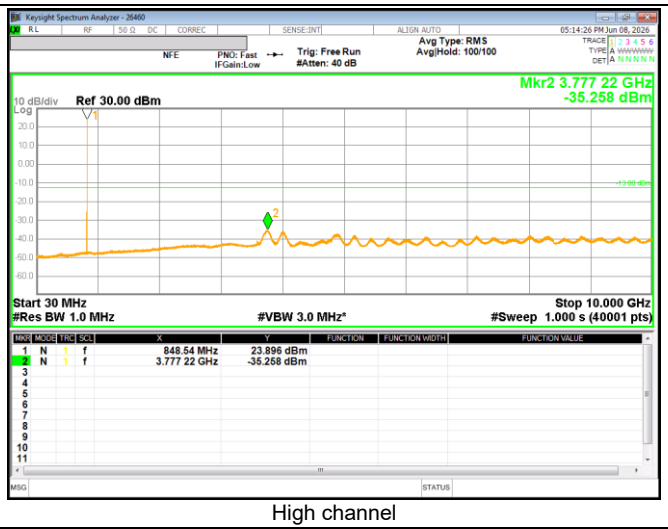
LTE Band 26 (Part 22) (ANT Main 1)

5 MHz QPSK
Low channel
Mid channel

High channel

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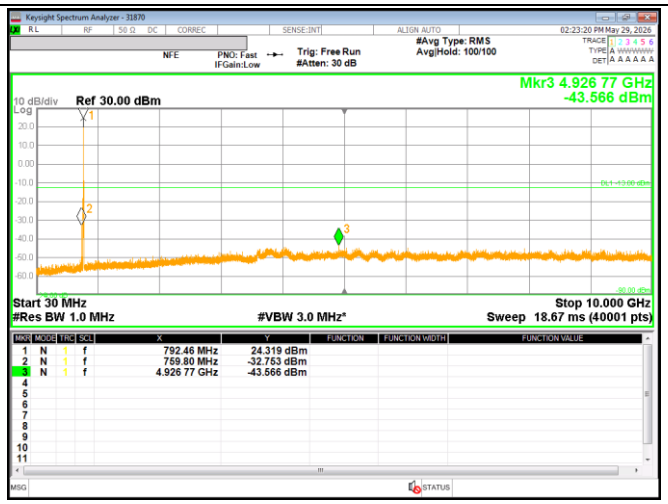
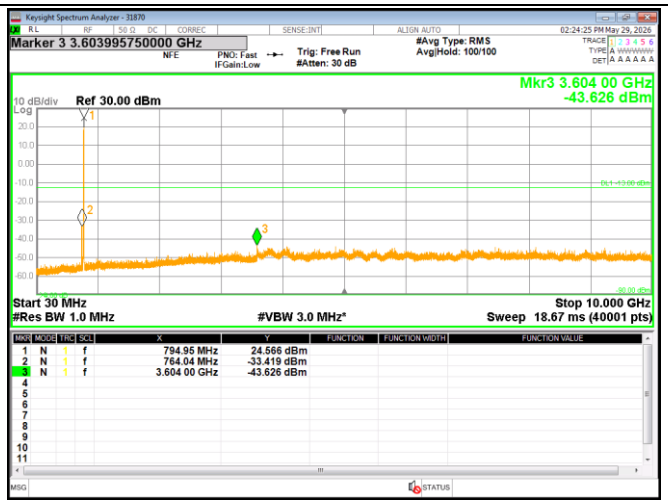
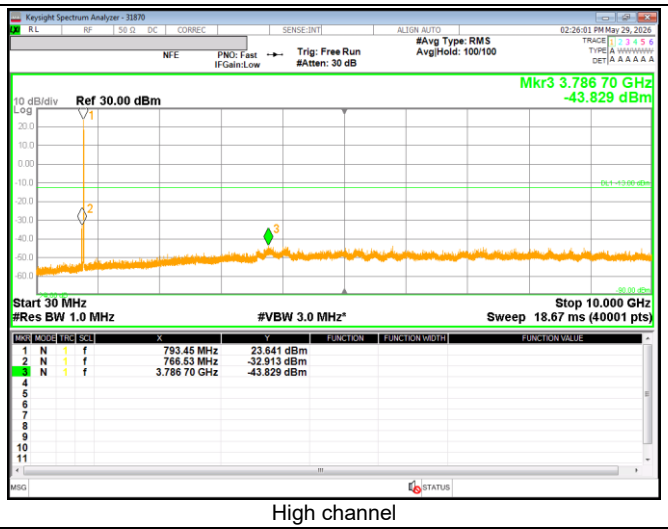
NR Band n14 DFT-s OFDM (ANT Main 1)

5 MHz QPSK DFT-s_OFDM
   Low channel
   Mid channel
   High channel

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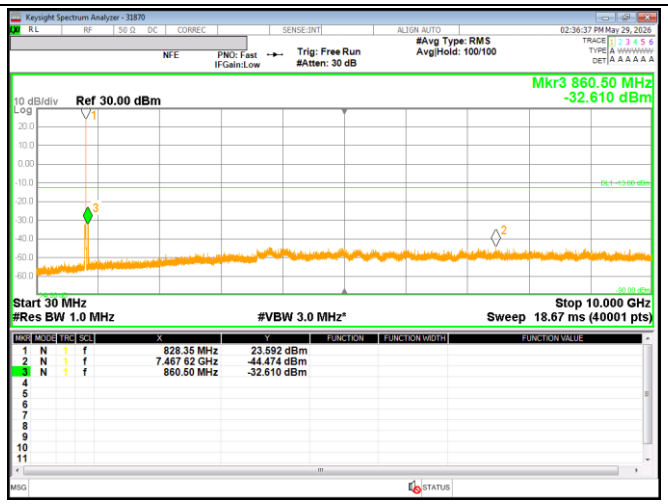
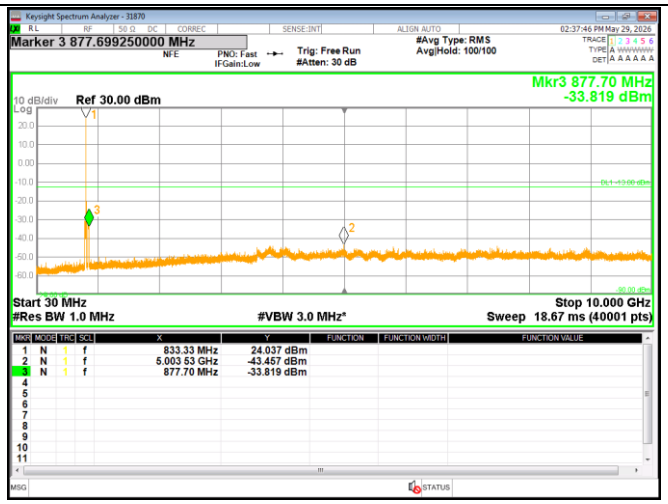
NR Band n26 (Part 90) (ANT Main 1)

15 MHz QPSK DFT-s_OFDM

Mid channel

NR Band n26 (Straddle) (ANT Main 1)

20 MHz QPSK DFT-s_OFDM

Straddle channel

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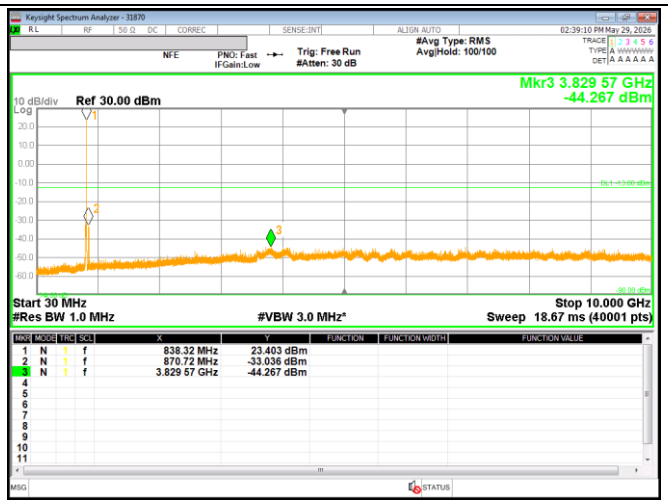
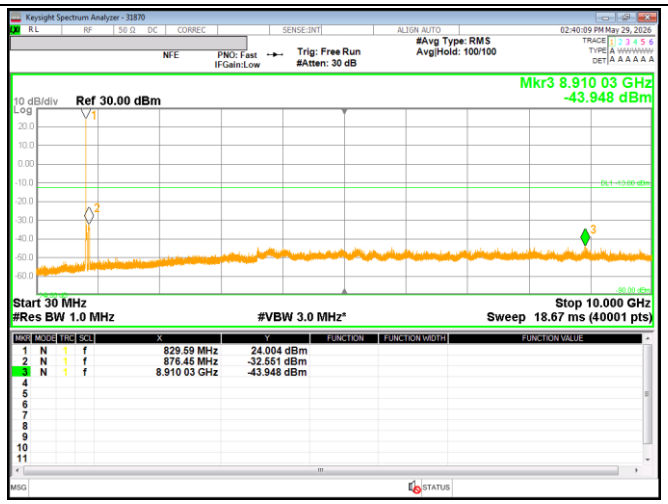
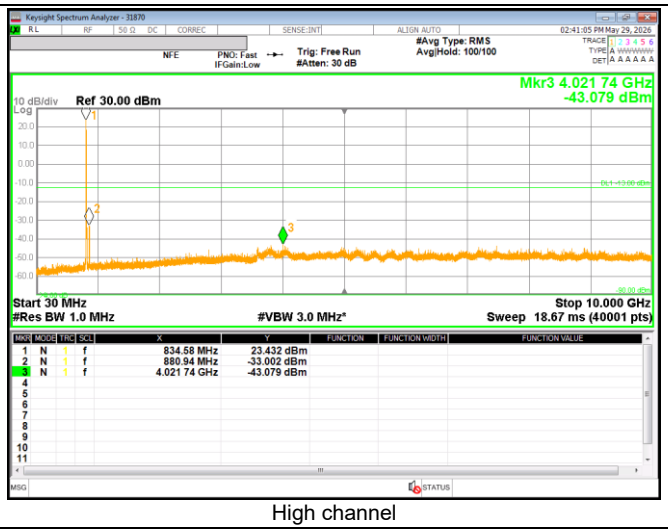
NR Band n26 (Part 22) (ANT Main 1)

15 MHz QPSK DFT-s_OFDM
 Low channel
 Mid channel
 High channel

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8.6. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355 and §90.213

LIMITS

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

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

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

NOTE

Test were performed each lowest or highest frequency on the modulation condition of more wide bandwidth.(Please refer to OBW results)

RESULTS

See the following pages.

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8.6.1. FREQUENCY STABILITY RESULT

WCDMA Band 5 (Lowest Frequency: HSDPA/ Highest Frequency: Rel99)

Test Date	2026-05-21
Test Engineer	25546

Limit: +- 2.5 ppm =	Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20ºC Low Channel 2066.000 Hz			High Channel 2116.500 Hz		
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measureed with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.90	50	826.40003123	-0.010	846.60003319	-0.010	2.5
3.90	40	826.40002855	-0.007	846.60003052	-0.007	2.5
3.90	30	826.40002510	-0.003	846.60002794	-0.003	2.5
3.90	***20***	***826.40002285***	***0.000***	***846.60002501***	***0.000***	***2.5***
3.90	10	826.40001954	0.004	846.60002315	0.002	2.5
3.90	0	826.40001733	0.007	846.60002185	0.004	2.5
3.90	-10	826.40001521	0.009	846.60001796	0.008	2.5
3.90	-20	826.40001314	0.012	846.60001574	0.011	2.5
3.90	-30	826.40001119	0.014	846.60001364	0.013	2.5

Limit: +- 2.5 ppm =	Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20ºC Low Channel 2066.000 Hz			High Channel 2116.500 Hz		
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measureed with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.90	***20***	**826.40002285**	***0***	**846.60002501**	***0***	***2.5***
4.50	20	826.40002954	-0.008	846.60003123	-0.007	2.5
3.70	20	826.40001214	0.013	846.60001484	0.012	2.5

LTE Band 14 (Lowest Frequency: QPSK / Highest Frequency: 16QAM)

Test Date	2026-05-12
Test Engineer	25546

Limit		788	798	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	788.2584	797.7455		
Extreme (50C)		788.2584	797.7455	9.3	0.012
Extreme (40C)		788.2584	797.7455	8.9	0.011
Extreme (30C)		788.2584	797.7455	6.3	0.008
Extreme (10C)		788.2584	797.7455	3.3	0.004
Extreme (0C)		788.2584	797.7455	10.6	0.013
Extreme (-10C)		788.2584	797.7455	7.3	0.009
Extreme (-20C)		788.2584	797.7455	5.3	0.007
Extreme (-30C)		788.2584	797.7455	8.6	0.011
20C	15%	788.2584	797.7455	9.9	0.013
	-15%	788.2584	797.7455	11.4	0.014
	End Point	788.2584	797.7455	8.7	0.011

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LTE Band 26 (Lowest Frequency: 16QAM / Highest Frequency: QPSK)

Test Date	2026-05-12
Test Engineer	25546

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20ºC						
Limit: +- 2.5 ppm =	Low Channel	2036.750	Hz	High Channel	2120.750	Hz

Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measureed with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.90	50	814.70000794	0.002	848.30001030	-0.003	2.5
3.90	40	814.70001101	-0.002	848.30000973	-0.003	2.5
3.90	30	814.70000623	0.004	848.30000661	0.001	2.5
3.90	***20***	***814.70000954***	***0.000***	***848.30000736***	***0.000***	***2.5***
3.90	10	814.70000528	0.005	848.30001026	-0.003	2.5
3.90	0	814.70000752	0.002	848.30000766	0.000	2.5
3.90	-10	814.70000785	0.002	848.30000843	-0.001	2.5
3.90	-20	814.70001473	-0.006	848.30000825	-0.001	2.5
3.90	-30	814.70001526	-0.007	848.30001016	-0.003	2.5

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20ºC						
Limit: +- 2.5 ppm =	Low Channel	2036.750	Hz	High Channel	2120.750	Hz

Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measureed with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.90	***20***	**814.70000954**	***0***	**848.30000736**	***0***	***2.5***
4.50	20	814.70000807	0.002	848.30001005	-0.003	2.5
3.70	20	814.70000421	0.007	848.30000807	-0.001	2.5

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NR Band n14 (Lowest Frequency: QPSK / Highest Frequency: 16QAM)

Test Date	2026-05-26
Test Engineer	31870

Limit		788	798	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	788.2605	797.7385		
Extreme (50C)		788.2605	797.7385	9.7	0.012
Extreme (40C)		788.2605	797.7385	8.0	0.010
Extreme (30C)		788.2605	797.7385	13.4	0.017
Extreme (10C)		788.2605	797.7385	11.6	0.015
Extreme (0C)		788.2605	797.7385	10.7	0.013
Extreme (-10C)		788.2605	797.7385	5.7	0.007
Extreme (-20C)		788.2605	797.7385	9.4	0.012
Extreme (-30C)		788.2605	797.7385	4.7	0.006
20C	15%	788.2605	797.7385	6.6	0.008
	-15%	788.2605	797.7385	11.8	0.015
	End Point	788.2605	797.7385	7.7	0.010

NR Band n26 (Lowest Frequency: QPSK / Highest Frequency: QPSK)

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20ºC

Limit: +- 2.5 ppm = Low Channel 2036.750 Hz High Channel 2120.750 Hz

Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measureed with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.90	50	814.70002332	-0.022	848.30001562	0.013	2.5
3.90	40	814.70001835	-0.016	848.30001248	0.016	2.5
3.90	30	814.70001521	-0.012	848.30001133	0.018	2.5
3.90	***20***	***814.70000565***	***0.000***	***848.30002632***	***0.000***	***2.5***
3.90	10	814.70000865	-0.004	848.30003014	-0.005	2.5
3.90	0	814.70001169	-0.007	848.30001147	0.018	2.5
3.90	-10	814.70001635	-0.013	848.30001315	0.016	2.5
3.90	-20	814.70002547	-0.024	848.30001532	0.013	2.5
3.90	-30	814.70003165	-0.032	848.30001850	0.009	2.5

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20ºC

Limit: +- 2.5 ppm = Low Channel 2036.750 Hz High Channel 2120.750 Hz

Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measureed with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.90	***20***	**814.70000565**	***0***	**848.30002632**	***0***	***2.5***
4.50	20	814.70001644	-0.013	848.30002547	0.001	2.5
3.70	20	814.70002339	-0.022	848.30001564	0.013	2.5

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9. RADIATED RESULTS

9.1. RADIATED POWER (ERP)

RULE PART(S)

FCC: §2.1046, §22.913, §90.542 and §90.635

LIMITS

§22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

§90.542(a)(7) - Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

§90.635(b) The maximum output power of the transmitter for mobile stations is 100 watts (20dBw).

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TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.17; ESU40 setting reference to 971168 D01 v03r01

For radiated output power measurement with a ESU40:

a) Set the RBW ≥ 1% to 5% of the OBW;
b) Set VBW ≥ 3 × RBW;
c) Set span ≥ 2 × to 3 × the OBW.;
d) Sweep time = auto couple or Set ≥ [10 × (number of points in sweep) × (transmission period)] for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.;
e) Detector = rms;
f) Ensure that the number of measurement points ≥ 2 x span/RBW;
g) Trace mode = average;
h) If the EUT can be configured to transmit continuously, then set the trigger to free run.
i) If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
j) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.
k) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

NOTE

LTE, 5G NR : The OBW value corresponding to the total channel bandwidth is the OBW of FullRB. Measurements were made with a 1RB configuration (worst-case) across the entire channel bandwidth, and FRB configurations were reported for the widest BW.

TEST RESULTS

See the following pages.

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9.1.1. ERP RESULT

WCDMA (ANT Main 1)

Band	Mode	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)
Band 5	REL99	826.40	26.99	V	3.00	-0.54	23.45	0.221	38.50	-15.05
		836.60	28.70	V	3.02	-0.50	25.17	0.329	38.50	-13.33
		846.60	28.58	V	3.04	-0.46	25.08	0.322	38.50	-13.42
	HSDPA	826.40	25.91	V	3.00	-0.54	22.37	0.172	38.50	-16.13
		836.60	27.63	V	3.02	-0.50	24.10	0.257	38.50	-14.40
		846.60	27.45	V	3.04	-0.46	23.95	0.248	38.50	-14.55

LTE Band 14 (ANT Main 1)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
10	QPSK	793.00	27.70	V	2.94	-0.69	24.07	0.255	34.77	-10.70	1 / 49
	16-QAM	793.00	26.24	V	2.94	-0.69	22.61	0.182	34.77	-12.16	1 / 49
5	QPSK	790.50	26.48	V	2.94	-0.70	22.85	0.193	34.77	-11.92	1 / 24
		793.00	27.41	V	2.94	-0.69	23.78	0.239	34.77	-10.99	1 / 24
		795.50	27.37	V	2.94	-0.67	23.75	0.237	34.77	-11.02	1 / 24
	16-QAM	790.50	25.55	V	2.94	-0.70	21.92	0.156	34.77	-12.85	1 / 24
		793.00	26.41	V	2.94	-0.69	22.78	0.190	34.77	-11.99	1 / 12
		795.50	26.35	V	2.94	-0.67	22.73	0.187	34.77	-12.04	1 / 0
10	QPSK	793.00	26.67	V	2.94	-0.69	23.04	0.201	34.77	-11.73	50/0
	16-QAM	793.00	24.84	V	2.94	-0.69	21.21	0.132	34.77	-13.56	50/0

LTE Band 14 (ANT Sub 1)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
10	QPSK	793.00	21.32	V	2.94	-0.69	17.69	0.059	34.77	-17.08	1 / 0
	16-QAM	793.00	20.17	V	2.94	-0.69	16.54	0.045	34.77	-18.23	1 / 0
5	QPSK	790.50	20.54	V	2.94	-0.70	16.91	0.049	34.77	-17.86	1 / 0
		793.00	19.93	V	2.94	-0.69	16.30	0.043	34.77	-18.47	1 / 24
		795.50	20.80	V	2.94	-0.67	17.18	0.052	34.77	-17.59	1 / 12
	16-QAM	790.50	19.60	V	2.94	-0.70	15.97	0.040	34.77	-18.80	1 / 0
		793.00	19.24	V	2.94	-0.69	15.61	0.036	34.77	-19.16	1 / 0
		795.50	19.41	V	2.94	-0.67	15.79	0.038	34.77	-18.98	1 / 0
10	QPSK	793.00	20.30	V	2.94	-0.69	16.67	0.046	34.77	-18.10	50/0
	16-QAM	793.00	18.66	V	2.94	-0.69	15.03	0.032	34.77	-19.74	50/0

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LTE Band 26 (ANT Main 1)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
15	QPSK	821.50	26.87	V	2.99	-0.56	23.31	0.214	50.00	-26.69	1 / 74
		824.00	27.26	V	3.00	-0.55	23.71	0.235	38.50	-14.79	1 / 74
		831.50	28.58	V	3.01	-0.52	25.05	0.320	38.50	-13.45	1 / 37
		836.50	28.83	V	3.02	-0.50	25.30	0.339	38.50	-13.20	1 / 37
		841.50	29.45	V	3.03	-0.48	25.94	0.393	38.50	-12.56	1 / 0
	16-QAM	821.50	25.82	V	2.99	-0.56	22.26	0.168	50.00	-27.74	1 / 74
		824.00	26.24	V	3.00	-0.55	22.69	0.186	38.50	-15.81	1 / 74
		831.50	27.32	V	3.01	-0.52	23.79	0.239	38.50	-14.71	1 / 37
		836.50	27.96	V	3.02	-0.50	24.43	0.277	38.50	-14.07	1 / 74
		841.50	28.28	V	3.03	-0.48	24.77	0.300	38.50	-13.73	1 / 0
10	QPSK	819.00	26.98	V	2.99	-0.57	23.42	0.220	50.00	-26.58	1 / 49
		824.00	27.38	V	3.00	-0.55	23.83	0.242	38.50	-14.67	1 / 49
		829.00	28.66	V	3.01	-0.53	25.12	0.325	38.50	-13.38	1 / 49
		836.50	29.05	V	3.02	-0.50	25.53	0.357	38.50	-12.97	1 / 49
		844.00	29.63	V	3.03	-0.47	26.13	0.410	38.50	-12.37	1 / 49
	16-QAM	819.00	25.63	V	2.99	-0.57	22.07	0.161	50.00	-27.93	1 / 49
		824.00	25.86	V	3.00	-0.55	22.31	0.170	38.50	-16.19	1 / 49
		829.00	28.03	V	3.01	-0.53	24.49	0.281	38.50	-14.01	1 / 49
		836.50	27.82	V	3.02	-0.50	24.30	0.269	38.50	-14.20	1 / 49
		844.00	27.85	V	3.03	-0.47	24.35	0.272	38.50	-14.15	1 / 0
5	QPSK	816.50	26.73	V	2.98	-0.58	23.17	0.207	50.00	-26.30	1 / 24
		821.50	27.25	V	2.99	-0.56	23.70	0.234	50.00	-26.35	1 / 24
		824.00	27.20	V	3.00	-0.55	23.65	0.232	38.50	-13.56	1 / 24
		826.50	28.48	V	3.00	-0.54	24.94	0.312	38.50	-12.95	1 / 24
		836.50	29.07	V	3.02	-0.50	25.55	0.359	38.50	-12.52	1 / 12
		846.50	29.48	V	3.04	-0.46	25.98	0.396	38.50	-16.63	1 / 24
	16-QAM	816.50	25.43	V	2.98	-0.58	21.87	0.154	50.00	-28.07	1 / 24
		821.50	25.48	V	2.99	-0.56	21.93	0.156	50.00	-27.55	1 / 24
		824.00	26.00	V	3.00	-0.55	22.45	0.176	38.50	-14.81	1 / 24
		826.50	27.23	V	3.00	-0.54	23.69	0.234	38.50	-14.30	1 / 24
		836.50	27.72	V	3.02	-0.50	24.20	0.263	38.50	-13.88	1 / 24
		846.50	28.12	V	3.04	-0.46	24.62	0.290	38.50	-13.88	1 / 0
3	QPSK	815.50	26.63	V	2.98	-0.59	23.06	0.202	50.00	-26.94	1 / 8
		822.50	27.17	V	3.00	-0.56	23.61	0.230	50.00	-26.39	1 / 14
		824.00	27.03	V	3.00	-0.55	23.48	0.223	38.50	-15.02	1 / 14
		825.50	28.35	V	3.00	-0.55	24.80	0.302	38.50	-13.70	1 / 14
		836.50	28.97	V	3.02	-0.50	25.45	0.351	38.50	-13.05	1 / 14
		847.50	29.36	V	3.04	-0.46	25.86	0.385	38.50	-12.64	1 / 0
	16-QAM	815.50	25.44	V	2.98	-0.59	21.87	0.154	50.00	-28.13	1 / 14
		822.50	26.06	V	3.00	-0.56	22.50	0.178	50.00	-27.50	1 / 0
		824.00	25.46	V	3.00	-0.55	21.91	0.155	38.50	-16.59	1 / 8
		825.50	27.24	V	3.00	-0.55	23.69	0.234	38.50	-14.81	1 / 14
		836.50	28.32	V	3.02	-0.50	24.80	0.302	38.50	-13.70	1 / 8
		847.50	27.67	V	3.04	-0.46	24.17	0.261	38.50	-14.33	1 / 14
1.4	QPSK	814.70	26.72	V	2.98	-0.59	23.15	0.207	50.00	-26.85	1 / 5
		823.30	27.21	V	3.00	-0.56	23.65	0.232	50.00	-26.35	1 / 5
		824.00	27.07	V	3.00	-0.55	23.52	0.225	38.50	-14.98	1 / 5
		824.70	28.40	V	3.00	-0.55	24.85	0.305	38.50	-13.65	1 / 5
		836.50	29.03	V	3.02	-0.50	25.51	0.356	38.50	-12.99	1 / 5
		848.30	29.41	V	3.04	-0.46	25.91	0.390	38.50	-12.59	1 / 5
	16-QAM	814.70	25.42	V	2.98	-0.59	21.85	0.153	50.00	-28.15	1 / 5
		823.30	25.20	V	3.00	-0.56	21.64	0.146	50.00	-28.36	1 / 5
		824.00	25.47	V	3.00	-0.55	21.92	0.156	38.50	-16.58	1 / 5
		824.70	27.18	V	3.00	-0.55	23.63	0.231	38.50	-14.87	1 / 5
		836.50	27.48	V	3.02	-0.50	23.96	0.249	38.50	-14.54	1 / 5
		848.30	27.69	V	3.04	-0.46	24.19	0.262	38.50	-14.31	1 / 5

15	QPSK	821.50	25.80	V	2.99	-0.56	22.24	0.167	50.00	-27.76	75/0
		824.00	26.16	V	3.00	-0.55	22.61	0.182	38.50	-15.89	75/0
		831.50	27.51	V	3.01	-0.52	23.98	0.250	38.50	-14.52	75/0
		836.50	27.93	V	3.02	-0.50	24.40	0.275	38.50	-14.10	75/0
		841.50	28.50	V	3.03	-0.48	24.99	0.316	38.50	-13.51	75/0
	16-QAM	821.50	24.47	V	2.99	-0.56	20.91	0.123	50.00	-29.09	75/0
		824.00	24.61	V	3.00	-0.55	21.06	0.128	38.50	-17.44	75/0
		831.50	26.27	V	3.01	-0.52	22.74	0.188	38.50	-15.76	75/0
		836.50	26.74	V	3.02	-0.50	23.21	0.209	38.50	-15.29	75/0
		841.50	26.79	V	3.03	-0.48	23.28	0.213	38.50	-15.22	75/0

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LTE Band 26 (ANT Sub 1)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
15	QPSK	821.50	23.46	V	2.99	-0.56	19.90	0.098	50.00	-30.10	1 / 0
		824.00	23.62	V	3.00	-0.55	20.07	0.102	38.50	-18.43	1 / 0
		831.50	24.32	V	3.01	-0.52	20.79	0.120	38.50	-17.71	1 / 74
		836.50	25.13	V	3.02	-0.50	21.60	0.145	38.50	-16.90	1 / 74
		841.50	25.08	V	3.03	-0.48	21.57	0.144	38.50	-16.93	1 / 37
	16-QAM	821.50	22.33	V	2.99	-0.56	18.77	0.075	50.00	-31.23	1 / 37
		824.00	22.41	V	3.00	-0.55	18.86	0.077	38.50	-19.64	1 / 0
		831.50	23.06	V	3.01	-0.52	19.53	0.090	38.50	-18.97	1 / 37
		836.50	23.44	V	3.02	-0.50	19.91	0.098	38.50	-18.59	1 / 74
		841.50	23.85	V	3.03	-0.48	20.34	0.108	38.50	-18.16	1 / 37
10	QPSK	819.00	23.52	V	2.99	-0.57	19.96	0.099	50.00	-30.04	1 / 0
		824.00	23.64	V	3.00	-0.55	20.09	0.102	38.50	-18.41	1 / 0
		829.00	24.36	V	3.01	-0.53	20.82	0.121	38.50	-17.68	1 / 49
		836.50	25.19	V	3.02	-0.50	21.67	0.147	38.50	-16.83	1 / 0
		844.00	25.09	V	3.03	-0.47	21.59	0.144	38.50	-16.91	1 / 0
	16-QAM	819.00	22.17	V	2.99	-0.57	18.61	0.073	50.00	-31.39	1 / 0
		824.00	22.43	V	3.00	-0.55	18.88	0.077	38.50	-19.62	1 / 0
		829.00	23.07	V	3.01	-0.53	19.53	0.090	38.50	-18.97	1 / 49
		836.50	23.19	V	3.02	-0.50	19.67	0.093	38.50	-18.83	1 / 0
		844.00	23.80	V	3.03	-0.47	20.30	0.107	38.50	-18.20	1 / 0
5	QPSK	816.50	23.68	V	2.98	-0.58	20.12	0.103	50.00	-29.84	1 / 0
		821.50	23.71	V	2.99	-0.56	20.16	0.104	50.00	-29.88	1 / 0
		824.00	23.67	V	3.00	-0.55	20.12	0.103	38.50	-17.60	1 / 0
		826.50	24.44	V	3.00	-0.54	20.90	0.123	38.50	-16.87	1 / 0
		836.50	25.15	V	3.02	-0.50	21.63	0.146	38.50	-16.83	1 / 24
		846.50	25.17	V	3.04	-0.46	21.67	0.147	38.50	-19.96	1 / 0
	16-QAM	816.50	22.10	V	2.98	-0.58	18.54	0.071	50.00	-31.24	1 / 24
		821.50	22.31	V	2.99	-0.56	18.76	0.075	50.00	-31.75	1 / 0
		824.00	21.80	V	3.00	-0.55	18.25	0.067	38.50	-19.06	1 / 0
		826.50	22.98	V	3.00	-0.54	19.44	0.088	38.50	-18.44	1 / 0
		836.50	23.58	V	3.02	-0.50	20.06	0.101	38.50	-18.72	1 / 24
		846.50	23.28	V	3.04	-0.46	19.78	0.095	38.50	-18.72	1 / 0
3	QPSK	815.50	23.52	V	2.98	-0.59	19.95	0.099	50.00	-30.05	1 / 14
		822.50	23.57	V	3.00	-0.56	20.01	0.100	50.00	-29.99	1 / 0
		824.00	23.62	V	3.00	-0.55	20.07	0.102	38.50	-18.43	1 / 0
		825.50	24.29	V	3.00	-0.55	20.74	0.119	38.50	-17.76	1 / 14
		836.50	24.97	V	3.02	-0.50	21.45	0.140	38.50	-17.05	1 / 14
		847.50	25.11	V	3.04	-0.46	21.61	0.145	38.50	-16.89	1 / 0
	16-QAM	815.50	22.67	V	2.98	-0.59	19.10	0.081	50.00	-30.90	1 / 0
		822.50	21.77	V	3.00	-0.56	18.21	0.066	50.00	-31.79	1 / 0
		824.00	21.81	V	3.00	-0.55	18.26	0.067	38.50	-20.24	1 / 0
		825.50	23.57	V	3.00	-0.55	20.02	0.100	38.50	-18.48	1 / 0
		836.50	23.05	V	3.02	-0.50	19.53	0.090	38.50	-18.97	1 / 0
		847.50	23.29	V	3.04	-0.46	19.79	0.095	38.50	-18.71	1 / 0
1.4	QPSK	814.70	23.57	V	2.98	-0.59	20.00	0.100	50.00	-30.00	1 / 0
		823.30	23.55	V	3.00	-0.56	19.99	0.100	50.00	-30.01	1 / 5
		824.00	23.60	V	3.00	-0.55	20.05	0.101	38.50	-18.45	1 / 5
		824.70	24.31	V	3.00	-0.55	20.76	0.119	38.50	-17.74	1 / 0
		836.50	25.00	V	3.02	-0.50	21.48	0.141	38.50	-17.02	1 / 5
		848.30	25.04	V	3.04	-0.46	21.54	0.143	38.50	-16.96	1 / 0
	16-QAM	814.70	21.76	V	2.98	-0.59	18.19	0.066	50.00	-31.81	1 / 5
		823.30	21.70	V	3.00	-0.56	18.14	0.065	50.00	-31.86	1 / 5
		824.00	21.77	V	3.00	-0.55	18.22	0.066	38.50	-20.28	1 / 5
		824.70	22.65	V	3.00	-0.55	19.10	0.081	38.50	-19.40	1 / 0
		836.50	23.00	V	3.02	-0.50	19.48	0.089	38.50	-19.02	1 / 5
		848.30	23.23	V	3.04	-0.46	19.73	0.094	38.50	-18.77	1 / 0

15	QPSK	821.50	22.47	V	2.99	-0.56	18.91	0.078	50.00	-31.09	75/0
		824.00	22.67	V	3.00	-0.55	19.12	0.082	38.50	-19.38	75/0
		831.50	23.27	V	3.01	-0.52	19.74	0.094	38.50	-18.76	75/0
		836.50	24.15	V	3.02	-0.50	20.62	0.115	38.50	-17.88	75/0
		841.50	24.12	V	3.03	-0.48	20.61	0.115	38.50	-17.89	75/0
	16-QAM	821.50	21.08	V	2.99	-0.56	17.52	0.056	50.00	-32.48	75/0
		824.00	20.89	V	3.00	-0.55	17.34	0.054	38.50	-21.16	75/0
		831.50	22.03	V	3.01	-0.52	18.50	0.071	38.50	-20.00	75/0
		836.50	22.13	V	3.02	-0.50	18.60	0.072	38.50	-19.90	75/0
		841.50	22.28	V	3.03	-0.48	18.77	0.075	38.50	-19.73	75/0

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NR Band n14 DFT-s OFDM (ANT Main 1)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
10	QPSK	793.00	28.46	V	2.94	-0.69	24.83	0.304	34.77	-9.94	1 / 50
	16-QAM	793.00	26.84	V	2.94	-0.69	23.21	0.210	34.77	-11.56	1 / 25
5	QPSK	790.50	28.20	V	2.94	-0.70	24.57	0.286	34.77	-10.20	1 / 23
		793.00	28.28	V	2.94	-0.69	24.65	0.292	34.77	-10.12	1 / 23
		795.50	28.48	V	2.94	-0.67	24.86	0.307	34.77	-9.91	1 / 1
	16-QAM	790.50	27.10	V	2.94	-0.70	23.47	0.222	34.77	-11.30	1 / 23
		793.00	27.44	V	2.94	-0.69	23.81	0.241	34.77	-10.96	1 / 23
		795.50	27.35	V	2.94	-0.67	23.73	0.236	34.77	-11.04	1 / 1
10	QPSK	793.00	27.58	V	2.94	-0.69	23.95	0.248	34.77	-10.82	50/0
	16-QAM	793.00	25.62	V	2.94	-0.69	21.99	0.158	34.77	-12.78	50/0

NR Band n26 DFT-s OFDM (ANT Main 1)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
20	QPSK	824.00	27.73	V	3.00	-0.55	24.18	0.262	38.50	-14.32	1 / 104
		834.00	29.13	V	3.02	-0.51	25.60	0.363	38.50	-12.90	1 / 104
		836.50	29.36	V	3.02	-0.50	25.83	0.383	38.50	-12.67	1 / 104
		839.00	29.65	V	3.03	-0.49	26.13	0.410	38.50	-12.37	1 / 1
	16-QAM	824.00	26.62	V	3.00	-0.55	23.07	0.203	38.50	-15.43	1 / 104
		834.00	28.36	V	3.02	-0.51	24.83	0.304	38.50	-13.67	1 / 104
		836.50	28.30	V	3.02	-0.50	24.77	0.300	38.50	-13.73	1 / 104
		839.00	28.82	V	3.03	-0.49	25.30	0.339	38.50	-13.20	1 / 1
15	QPSK	821.50	27.45	V	2.99	-0.56	23.90	0.245	50.00	-26.10	1 / 77
		824.00	27.58	V	3.00	-0.55	24.03	0.253	38.50	-14.47	1 / 77
		831.50	29.25	V	3.01	-0.52	25.72	0.373	38.50	-12.78	1 / 77
		836.50	29.38	V	3.02	-0.50	25.86	0.385	38.50	-12.64	1 / 1
		841.50	29.74	V	3.03	-0.48	26.23	0.420	38.50	-12.27	1 / 1
	16-QAM	821.50	26.87	V	2.99	-0.56	23.32	0.215	50.00	-26.68	1 / 77
		824.00	26.70	V	3.00	-0.55	23.15	0.207	38.50	-15.35	1 / 77
		831.50	28.15	V	3.01	-0.52	24.62	0.290	38.50	-13.88	1 / 77
		836.50	28.05	V	3.02	-0.50	24.53	0.284	38.50	-13.97	1 / 77
		841.50	28.61	V	3.03	-0.48	25.10	0.324	38.50	-13.40	1 / 1
10	QPSK	819.00	27.28	V	2.99	-0.57	23.72	0.236	50.00	-26.28	1 / 50
		824.00	27.42	V	3.00	-0.55	23.87	0.244	38.50	-14.63	1 / 50
		829.00	29.14	V	3.01	-0.53	25.60	0.363	38.50	-12.90	1 / 50
		836.50	29.41	V	3.02	-0.50	25.89	0.388	38.50	-12.61	1 / 1
		844.00	29.64	V	3.03	-0.47	26.14	0.411	38.50	-12.36	1 / 1
	16-QAM	819.00	26.43	V	2.99	-0.57	22.87	0.194	50.00	-27.13	1 / 50
		824.00	26.57	V	3.00	-0.55	23.02	0.200	38.50	-15.48	1 / 50
		829.00	28.11	V	3.01	-0.53	24.57	0.286	38.50	-13.93	1 / 50
		836.50	28.08	V	3.02	-0.50	24.56	0.286	38.50	-13.94	1 / 1
		844.00	28.52	V	3.03	-0.47	25.02	0.318	38.50	-13.48	1 / 1
5	QPSK	816.50	27.18	V	2.98	-0.58	23.62	0.230	50.00	-26.38	1 / 23
		821.50	27.21	V	2.99	-0.56	23.66	0.232	50.00	-26.34	1 / 23
		824.00	27.35	V	3.00	-0.55	23.80	0.240	38.50	-14.70	1 / 23
		826.50	29.03	V	3.00	-0.54	25.49	0.354	38.50	-13.01	1 / 23
		836.50	29.41	V	3.02	-0.50	25.89	0.388	38.50	-12.61	1 / 1
		846.50	29.61	V	3.04	-0.46	26.11	0.408	38.50	-12.39	1 / 1
	16-QAM	816.50	26.37	V	2.98	-0.58	22.81	0.191	50.00	-27.19	1 / 23
		821.50	26.40	V	2.99	-0.56	22.85	0.193	50.00	-27.15	1 / 23
		824.00	26.54	V	3.00	-0.55	22.99	0.199	38.50	-15.51	1 / 23
		826.50	28.03	V	3.00	-0.54	24.49	0.281	38.50	-14.01	1 / 23
		836.50	28.09	V	3.02	-0.50	24.57	0.286	38.50	-13.93	1 / 1
		846.50	28.49	V	3.04	-0.46	24.99	0.316	38.50	-13.51	1 / 1
20	QPSK	824.00	26.36	V	3.00	-0.55	22.81	0.191	38.50	-15.69	100/0
		834.00	28.14	V	3.02	-0.51	24.61	0.289	38.50	-13.89	100/0
		836.50	28.42	V	3.02	-0.50	24.89	0.308	38.50	-13.61	100/0
		839.00	28.75	V	3.03	-0.49	25.23	0.333	38.50	-13.27	100/0
	16-QAM	824.00	25.45	V	3.00	-0.55	21.90	0.155	38.50	-16.60	100/0
		834.00	26.99	V	3.02	-0.51	23.46	0.222	38.50	-15.04	100/0
		836.50	27.01	V	3.02	-0.50	23.48	0.223	38.50	-15.02	100/0
		839.00	27.51	V	3.03	-0.49	23.99	0.251	38.50	-14.51	100/0

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9.2. RADIATIED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053, §22.917, §90.543 and §90.691

LIMIT

§22.917(a)
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.

§90.543(c)
On any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least 43 + 10log (P) dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz

§90.543(f)
For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

§90.691(a):
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\text{Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.(NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

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TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03r01

For peak power measurement with a ESU40:

a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz.
b) Set VBW ≥ 3 × RBW;
c) Set span ≥ 1.5 times the OBW;
d) Sweep time = auto couple;
e) Detector = rms;
f) Ensure that the number of measurement points ≥ 2 x span/RBW;
g) Trace mode = average(WCDMA, LTE, 5G NR)

NOTE1
UMTS: It was tested at REL 99 as worst case (the highst output power and density).
LTE: It was tested at 1RB QPSK as worst case (the highst output power and density).
5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations (π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2
For LTE B14 / NR n14 Bands, No emission exhibiting discrete or narrowband characteristics was observed during the evaluation.

NOTE3
Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

RESULTS
See the following pages.

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9.2.1. SPURIOUS RADIATION RESULT

WCDMA Band 5

REL99

ANT Main 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company:	Samsung
Project #:	4792232010
Date:	2026-05-19
Test Engineer:	28183
Configuration:	EUT / AC Adapter, Z-Position
Location:	Chamber 2
Mode:	Rel99 Band 5 Harmonics
Test Votage:	AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4MHz									
1652.80	-71.8	V	3.0	-6.4	11.74	-66.5	-13.0	-53.5	
2479.20	-64.2	V	3.0	-1.7	11.74	-54.2	-13.0	-41.2	
3305.60	-77.0	V	3.0	-0.2	11.74	-65.4	-13.0	-52.4	NF
4132.00	-77.0	V	3.0	1.7	11.74	-63.5	-13.0	-50.5	NF
4958.40	-78.0	V	3.0	3.1	11.74	-63.2	-13.0	-50.2	NF
Mid Ch, 836.6MHz									
1673.20	-72.0	V	3.0	-6.3	11.74	-66.6	-13.0	-53.6	
2509.80	-64.1	V	3.0	-1.6	11.74	-54.0	-13.0	-41.0	
3346.40	-76.9	V	3.0	0.1	11.74	-65.1	-13.0	-52.1	NF
4183.00	-76.9	V	3.0	1.7	11.74	-63.4	-13.0	-50.4	NF
5019.60	-78.1	V	3.0	3.2	11.74	-63.2	-13.0	-50.2	NF
1673.20	-72.8	H	3.0	-6.3	11.74	-67.4	-13.0	-54.4	
2509.80	-66.2	H	3.0	-1.6	11.74	-56.1	-13.0	-43.1	
3346.40	-76.9	H	3.0	0.1	11.74	-65.0	-13.0	-52.0	NF
4183.00	-76.6	H	3.0	1.7	11.74	-63.1	-13.0	-50.1	NF
5019.60	-78.2	H	3.0	3.2	11.74	-63.2	-13.0	-50.2	NF
High Ch, 846.6MHz									
1693.20	-71.6	V	3.0	-6.2	11.74	-66.1	-13.0	-53.1	
2539.80	-67.3	V	3.0	-1.6	11.74	-57.1	-13.0	-44.1	
3386.40	-77.2	V	3.0	0.3	11.74	-65.2	-13.0	-52.2	NF
4233.00	-77.4	V	3.0	1.7	11.74	-64.0	-13.0	-51.0	NF
5079.60	-78.0	V	3.0	3.3	11.74	-62.9	-13.0	-49.9	NF

NF : Noise Floor

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LTE Band 14

10 MHz
QPSK
ANT Main 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792232010
Date: 2026-05-14
Test Engineer: 28183
Configuration: EUT / AC Adapter, Y-Position
Location: Chamber 2
Mode: LTE_QPSK Band 14 Harmonics, 10MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, 793MHz									
1586.00	-70.3	V	3.0	-6.7	11.74	-65.2	-40.0	-25.2	
2379.00	-55.9	V	3.0	-2.1	11.74	-46.2	-13.0	-33.2	
3172.00	-77.0	V	3.0	0.0	11.74	-65.2	-13.0	-52.2	
3965.00	-76.6	V	3.0	1.4	11.74	-63.5	-13.0	-50.5	
4758.00	-78.2	V	3.0	3.1	11.74	-63.4	-13.0	-50.4	NF
5551.00	-78.7	V	3.0	4.2	11.74	-62.7	-13.0	-49.7	NF
1586.00	-69.6	H	3.0	-6.7	11.74	-64.6	-40.0	-24.6	
2379.00	-53.5	H	3.0	-2.1	11.74	-43.9	-13.0	-30.9	
3172.00	-77.0	H	3.0	0.0	11.74	-65.3	-13.0	-52.3	NF
3965.00	-75.2	H	3.0	1.4	11.74	-62.1	-13.0	-49.1	
4758.00	-78.3	H	3.0	3.1	11.74	-63.4	-13.0	-50.4	NF
5551.00	-78.7	H	3.0	4.2	11.74	-62.7	-13.0	-49.7	NF

NF : Noise Floor

10 MHz
QPSK
ANT Sub 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792232010
Date: 2026-06-09
Test Engineer: 28775
Configuration: EUT / AC Adapter, Z-Position
Location: Chamber 2
Mode: LTE_QPSK Band 14 Harmonics, 10MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, 793MHz									
1586.00	-54.9	V	3.0	-6.7	11.74	-49.9	-40.0	-9.9	NF
2379.00	-43.3	V	3.0	-2.1	11.74	-33.6	-13.0	-20.6	
3172.00	-52.9	V	3.0	0.0	11.74	-41.1	-13.0	-28.1	NF
3965.00	-51.1	V	3.0	1.4	11.74	-38.0	-13.0	-25.0	NF
1586.00	-54.9	H	3.0	-6.7	11.74	-49.8	-40.0	-9.8	NF
2379.00	-50.2	H	3.0	-2.1	11.74	-40.5	-13.0	-27.5	
3172.00	-53.0	H	3.0	0.0	11.74	-41.2	-13.0	-28.2	NF
3965.00	-51.1	H	3.0	1.4	11.74	-38.0	-13.0	-25.0	NF

NF : Noise Floor

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LTE Band 26 (Part 90)

5 MHz
QPSK
ANT Main 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792232010
Date: 2026-05-19
Test Engineer: 28183
Configuration: EUT / AC Adapter, Z-Position
Location: Chamber 2
Mode: LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 816.5MHz									
1633.00	-71.0	H	3.0	-6.5	11.74	-65.8	-13.0	-52.8	
2449.50	-76.0	H	3.0	-1.8	11.74	-66.1	-13.0	-53.1	NF
3266.00	-78.2	H	3.0	-0.1	11.74	-66.6	-13.0	-53.6	NF
4082.50	-77.7	H	3.0	1.7	11.74	-64.3	-13.0	-51.3	NF
4899.00	-77.9	H	3.0	3.0	11.74	-63.1	-13.0	-50.1	NF
Mid Ch, 821.5MHz									
1643.00	-67.0	V	3.0	-6.5	11.74	-61.7	-13.0	-48.7	
2464.50	-59.6	V	3.0	-1.8	11.74	-49.7	-13.0	-36.7	
3286.00	-76.2	V	3.0	-0.1	11.74	-64.6	-13.0	-51.6	
4107.50	-77.3	V	3.0	1.7	11.74	-63.8	-13.0	-50.8	NF
4929.00	-77.8	V	3.0	3.1	11.74	-63.0	-13.0	-50.0	NF
1643.00	-66.3	H	3.0	-6.5	11.74	-61.0	-13.0	-48.0	
2464.50	-59.4	H	3.0	-1.8	11.74	-49.5	-13.0	-36.5	
3286.00	-76.4	H	3.0	-0.1	11.74	-64.8	-13.0	-51.8	
4107.50	-77.1	H	3.0	1.7	11.74	-63.6	-13.0	-50.6	NF
4929.00	-77.8	H	3.0	3.1	11.74	-62.9	-13.0	-49.9	NF

NF : Noise Floor

5 MHz
QPSK
ANT Sub 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792232010
Date: 2026-06-10
Test Engineer: 28775
Configuration: EUT / AC Adapter, Y-Position
Location: Chamber 2
Mode: LTE_QPSK Band 26(Part90) Harmonics, 5MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 816.5MHz									
1633.00	-55.2	V	3.0	-6.5	11.74	-50.0	-13.0	-37.0	NF
2449.50	-52.5	V	3.0	-1.8	11.74	-42.6	-13.0	-29.6	
3266.00	-53.1	V	3.0	-0.1	11.74	-41.5	-13.0	-28.5	NF
4082.50	-51.1	V	3.0	1.7	11.74	-37.7	-13.0	-24.7	NF
1633.00	-55.2	H	3.0	-6.5	11.74	-50.0	-13.0	-37.0	NF
2449.50	-50.6	H	3.0	-1.8	11.74	-40.6	-13.0	-27.6	
3266.00	-53.0	H	3.0	-0.1	11.74	-41.4	-13.0	-28.4	NF
4082.50	-51.0	H	3.0	1.7	11.74	-37.5	-13.0	-24.5	NF
High Ch, 821.5MHz									
1643.00	-55.1	H	3.0	-6.5	11.74	-49.8	-13.0	-36.8	NF
2464.50	-51.0	H	3.0	-1.8	11.74	-41.0	-13.0	-28.0	
3286.00	-52.9	H	3.0	-0.1	11.74	-41.3	-13.0	-28.3	NF
4107.50	-50.9	H	3.0	1.7	11.74	-37.4	-13.0	-24.4	NF

NF : Noise Floor

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LTE Band 26 (Straddle)

10 MHz
QPSK
ANT Main 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company:	Samsung
Project #:	4792232010
Date:	2026-05-19
Test Engineer:	28183
Configuration:	EUT / Z-Position
Location:	Chamber 2
Mode:	LTE_QPSK Band 26 Harmonics, 10MHz Bandwidth
Test Votage:	AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Straddle Ch, 824MHz									
1648.00	-67.4	V	3.0	-6.4	11.74	-62.1	-13.0	-49.1	
2472.00	-70.5	V	3.0	-1.8	11.74	-60.5	-13.0	-47.5	
3296.00	-76.8	V	3.0	-0.2	11.74	-65.2	-13.0	-52.2	NF
4120.00	-77.2	V	3.0	1.7	11.74	-63.7	-13.0	-50.7	NF
1648.00	-70.1	H	3.0	-6.4	11.74	-64.8	-13.0	-51.8	
2472.00	-69.8	H	3.0	-1.8	11.74	-59.8	-13.0	-46.8	
3296.00	-76.6	H	3.0	-0.2	11.74	-65.1	-13.0	-52.1	NF
4120.00	-77.2	H	3.0	1.7	11.74	-63.7	-13.0	-50.7	NF

NF : Noise Floor

5 MHz
QPSK
ANT Sub 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company:	Samsung
Project #:	4792232010
Date:	2026-06-10
Test Engineer:	28775
Configuration:	EUT / AC Adapter, Y-Position
Location:	Chamber 2
Mode:	LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth
Test Votage:	AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Straddle Ch, 824MHz									
1648.00	-55.1	V	3.0	-6.4	11.74	-49.8	-13.0	-36.8	NF
2472.00	-52.6	V	3.0	-1.8	11.74	-42.6	-13.0	-29.6	
3296.00	-52.9	V	3.0	-0.2	11.74	-41.3	-13.0	-28.3	NF
4120.00	-50.9	V	3.0	1.7	11.74	-37.5	-13.0	-24.5	NF
1648.00	-54.5	H	3.0	-6.4	11.74	-49.2	-13.0	-36.2	NF
2472.00	-51.2	H	3.0	-1.8	11.74	-41.2	-13.0	-28.2	
3296.00	-52.8	H	3.0	-0.2	11.74	-41.2	-13.0	-28.2	NF
4120.00	-50.8	H	3.0	1.7	11.74	-37.3	-13.0	-24.3	NF

NF : Noise Floor

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LTE Band 26 (Part 22)

10 MHz
QPSK
ANT Main 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792232010
Date: 2026-05-15
Test Engineer: 28183
Configuration: EUT / AC Adapter, Z-Position
Location: Chamber 2
Mode: LTE_QPSK Band 26 Harmonics, 10MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829MHz									
1658.00	-67.8	V	3.0	-6.4	11.74	-62.4	-13.0	-49.4	
2487.00	-70.6	V	3.0	-1.7	11.74	-60.6	-13.0	-47.6	
3316.00	-76.9	V	3.0	-0.1	11.74	-65.3	-13.0	-52.3	NF
4145.00	-76.9	V	3.0	1.7	11.74	-63.5	-13.0	-50.5	NF
4974.00	-78.1	V	3.0	3.1	11.74	-63.2	-13.0	-50.2	NF
Mid Ch, 836.5MHz									
1673.00	-68.0	V	3.0	-6.3	11.74	-62.6	-13.0	-49.6	
2509.50	-69.2	V	3.0	-1.6	11.74	-59.1	-13.0	-46.1	
3346.00	-76.7	V	3.0	0.1	11.74	-64.9	-13.0	-51.9	NF
4182.50	-76.8	V	3.0	1.7	11.74	-63.3	-13.0	-50.3	NF
5019.00	-78.1	V	3.0	3.2	11.74	-63.2	-13.0	-50.2	NF
1673.00	-71.8	H	3.0	-6.3	11.74	-66.4	-13.0	-53.4	
2509.50	-69.2	H	3.0	-1.6	11.74	-59.1	-13.0	-46.1	
3346.00	-76.8	H	3.0	0.1	11.74	-65.0	-13.0	-52.0	NF
4182.50	-76.4	H	3.0	1.7	11.74	-62.9	-13.0	-49.9	NF
5019.00	-78.3	H	3.0	3.2	11.74	-63.4	-13.0	-50.4	NF
High Ch, 844MHz									
1688.00	-67.7	V	3.0	-6.2	11.74	-62.2	-13.0	-49.2	
2532.00	-72.0	V	3.0	-1.6	11.74	-61.9	-13.0	-48.9	
3376.00	-76.8	V	3.0	0.2	11.74	-64.8	-13.0	-51.8	NF
4220.00	-77.2	V	3.0	1.7	11.74	-63.7	-13.0	-50.7	NF
5064.00	-78.2	V	3.0	3.3	11.74	-63.2	-13.0	-50.2	NF

NF : Noise Floor

5 MHz
QPSK
ANT Sub 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792232010
Date: 2026-06-10
Test Engineer: 28775
Configuration: EUT / AC Adapter, Y-Position
Location: Chamber 2
Mode: LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.5MHz									
1653.00	-55.0	H	3.0	-6.4	11.74	-49.7	-13.0	-36.7	NF
2479.50	-51.1	H	3.0	-1.7	11.74	-41.1	-13.0	-28.1	
3306.00	-52.7	H	3.0	-0.2	11.74	-41.1	-13.0	-28.1	NF
4132.50	-50.8	H	3.0	1.7	11.74	-37.3	-13.0	-24.3	NF
Mid Ch, 836.5MHz									
1673.00	-54.9	V	3.0	-6.3	11.74	-49.5	-13.0	-36.5	NF
2509.50	-42.0	V	3.0	-1.6	11.74	-31.9	-13.0	-18.9	
3346.00	-53.3	V	3.0	0.1	11.74	-41.5	-13.0	-28.5	NF
4182.50	-50.9	V	3.0	1.7	11.74	-37.4	-13.0	-24.4	NF
1673.00	-54.9	H	3.0	-6.3	11.74	-49.5	-13.0	-36.5	NF
2509.50	-40.9	H	3.0	-1.6	11.74	-30.8	-13.0	-17.8	
3346.00	-53.3	H	3.0	0.1	11.74	-41.5	-13.0	-28.5	NF
4182.50	-50.8	H	3.0	1.7	11.74	-37.3	-13.0	-24.3	NF
High Ch, 846.5MHz									
1693.00	-54.8	H	3.0	-6.2	11.74	-49.2	-13.0	-36.2	NF
2539.50	-52.1	H	3.0	-1.6	11.74	-41.9	-13.0	-28.9	
3386.00	-53.5	H	3.0	0.3	11.74	-41.5	-13.0	-28.5	NF
4232.50	-50.8	H	3.0	1.7	11.74	-37.4	-13.0	-24.4	NF

NF : Noise Floor

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NR Band n14 DFT-s OFDM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792232010
Date: 2026-06-11
Test Engineer: 28775
Configuration: EUT / Y-Position
Location: Chamber 2
Mode: 5G NR_QPSK NR n14 Harmonics, 5MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

5 MHz

DFT-s-OFDM

QPSK

ANT Main 1

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 790.5MHz									
1581.00	-55.0	H	3.0	-6.7	11.74	-50.0	-40.0	-10.0	NF
2371.50	-53.3	H	3.0	-2.1	11.74	-43.7	-13.0	-30.7	
3162.00	-53.1	H	3.0	0.0	11.74	-41.3	-13.0	-28.3	NF
3952.50	-51.2	H	3.0	1.3	11.74	-38.2	-13.0	-25.2	NF
Mid Ch, 793MHz									
1586.00	-54.9	V	3.0	-6.7	11.74	-49.9	-40.0	-9.9	NF
2379.00	-52.4	V	3.0	-2.1	11.74	-42.8	-13.0	-29.8	
3172.00	-52.9	V	3.0	0.0	11.74	-41.1	-13.0	-28.1	NF
3965.00	-51.3	V	3.0	1.4	11.74	-38.2	-13.0	-25.2	NF
1586.00	-55.0	H	3.0	-6.7	11.74	-49.9	-40.0	-9.9	NF
2379.00	-49.5	H	3.0	-2.1	11.74	-39.8	-13.0	-26.8	
3172.00	-53.0	H	3.0	0.0	11.74	-41.2	-13.0	-28.2	NF
3965.00	-51.2	H	3.0	1.4	11.74	-38.1	-13.0	-25.1	NF
High Ch, 795.5MHz									
1591.00	-55.0	H	3.0	-6.7	11.74	-50.0	-40.0	-10.0	NF
2386.50	-52.8	H	3.0	-2.1	11.74	-43.1	-13.0	-30.1	
3182.00	-53.0	H	3.0	0.1	11.74	-41.1	-13.0	-28.1	NF
3977.50	-51.3	H	3.0	1.4	11.74	-38.2	-13.0	-25.2	NF

NF : Noise Floor

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NR Band n26 DFT-s OFDM (Part 90)

15 MHz

DFT-s-OFDM

QPSK

ANT Main 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792232010
Date: 2026-06-15
Test Engineer: 28775
Configuration: EUT / AC Adapter, Z-Position
Location: Chamber 2
Mode: 5G NR_QPSK NR n26(Part 90) Harmonics, 15MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 821.5MHz									
1643.00	-54.6	V	3.0	-6.5	11.74	-49.4	-13.0	-36.4	
2464.50	-52.8	V	3.0	-1.8	11.74	-42.9	-13.0	-29.9	
3286.00	-53.0	V	3.0	-0.1	11.74	-41.4	-13.0	-28.4	NF
4107.50	-51.0	V	3.0	1.7	11.74	-37.5	-13.0	-24.5	NF
1643.00	-54.9	H	3.0	-6.5	11.74	-49.6	-13.0	-36.6	
2464.50	-52.8	H	3.0	-1.8	11.74	-42.8	-13.0	-29.8	
3286.00	-52.9	H	3.0	-0.1	11.74	-41.3	-13.0	-28.3	NF
4107.50	-51.0	H	3.0	1.7	11.74	-37.5	-13.0	-24.5	NF

NF : Noise Floor

NR Band n26 DFT-s OFDM (Straddle)

20 MHz

DFT-s-OFDM

QPSK

ANT Main 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792232010
Date: 2026-06-15
Test Engineer: 28775
Configuration: EUT / AC Adapter, Z-Position
Location: Chamber 2
Mode: 5G NR_QPSK NR n26 Harmonics, 20MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Straddle Ch, 824MHz									
1648.00	-54.6	V	3.0	-6.4	11.74	-49.3	-13.0	-36.3	
2472.00	-53.0	V	3.0	-1.8	11.74	-43.0	-13.0	-30.0	
3296.00	-53.1	V	3.0	-0.2	11.74	-41.5	-13.0	-28.5	NF
4120.00	-50.7	V	3.0	1.7	11.74	-37.2	-13.0	-24.2	NF
1648.00	-54.7	H	3.0	-6.4	11.74	-49.4	-13.0	-36.4	
2472.00	-52.9	H	3.0	-1.8	11.74	-42.9	-13.0	-29.9	
3296.00	-53.0	H	3.0	-0.2	11.74	-41.5	-13.0	-28.5	NF
4120.00	-51.0	H	3.0	1.7	11.74	-37.5	-13.0	-24.5	NF

NF : Noise Floor

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NR Band n26 DFT-s OFDM (Part 22)

15 MHz

DFT-s-OFDM

QPSK

ANT Main 1

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company:	Samsung
Project #:	4792232010
Date:	2026-06-15
Test Engineer:	28775
Configuration:	EUT / AC Adapter, Z-Position
Location:	Chamber 2
Mode:	5G NR_QPSK NR n26 Harmonics, 15MHz Bandwidth
Test Votage:	AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 831.5MHz									
1663.00	-54.9	H	3.0	-6.4	11.74	-49.6	-13.0	-36.6	NF
2494.50	-52.3	H	3.0	-1.7	11.74	-42.3	-13.0	-29.3	
3326.00	-52.8	H	3.0	0.0	11.74	-41.1	-13.0	-28.1	NF
4157.50	-50.9	H	3.0	1.7	11.74	-37.4	-13.0	-24.4	NF
Mid Ch, 836.5MHz									
1673.00	-55.1	V	3.0	-6.3	11.74	-49.6	-13.0	-36.6	NF
2509.50	-53.0	V	3.0	-1.6	11.74	-42.9	-13.0	-29.9	
3346.00	-52.9	V	3.0	0.1	11.74	-41.1	-13.0	-28.1	NF
4182.50	-51.0	V	3.0	1.7	11.74	-37.5	-13.0	-24.5	NF
1673.00	-54.8	H	3.0	-6.3	11.74	-49.4	-13.0	-36.4	
2509.50	-52.3	H	3.0	-1.6	11.74	-42.2	-13.0	-29.2	
3346.00	-52.7	H	3.0	0.1	11.74	-40.9	-13.0	-27.9	NF
4182.50	-50.9	H	3.0	1.7	11.74	-37.5	-13.0	-24.5	NF
High Ch, 841.5MHz									
1683.00	-55.0	H	3.0	-6.3	11.74	-49.5	-13.0	-36.5	
2524.50	-53.2	H	3.0	-1.6	11.74	-43.1	-13.0	-30.1	
3366.00	-53.0	H	3.0	0.2	11.74	-41.1	-13.0	-28.1	NF
4207.50	-50.9	H	3.0	1.7	11.74	-37.5	-13.0	-24.5	NF

NF : Noise Floor

END OF REPORT

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