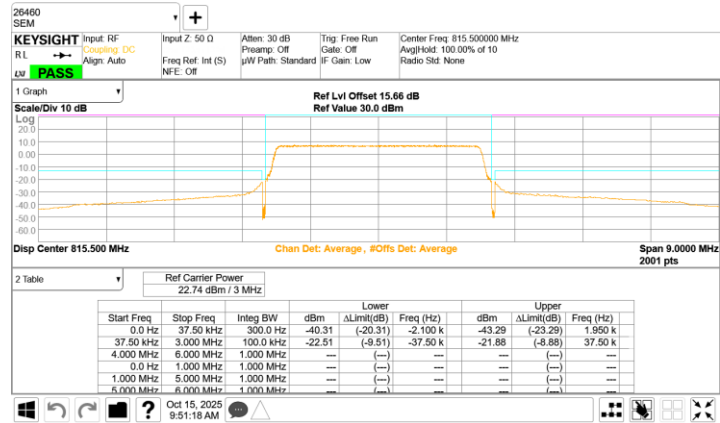
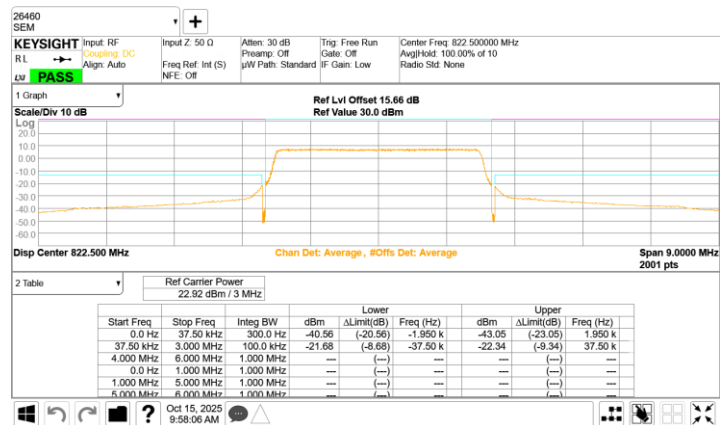


3 MHz
16QAM
FRB

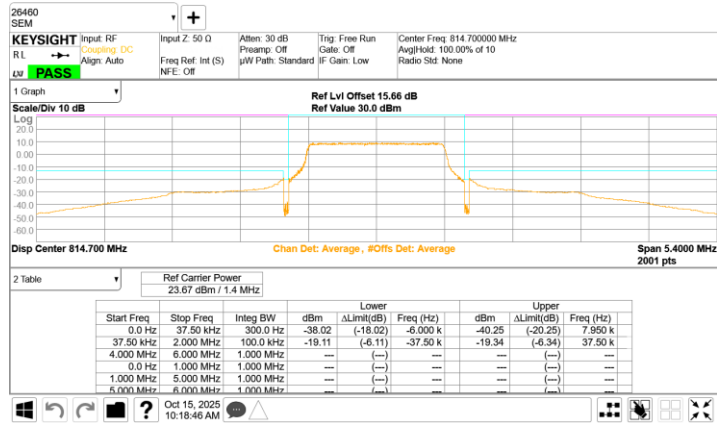


Low channel

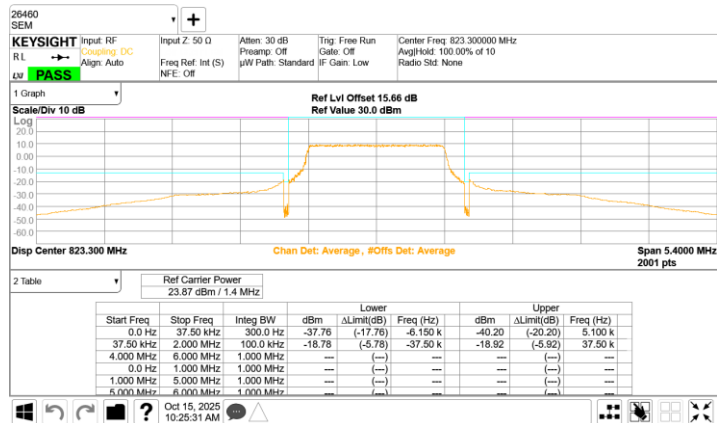


High channel

1.4 MHz
QPSK
FRB

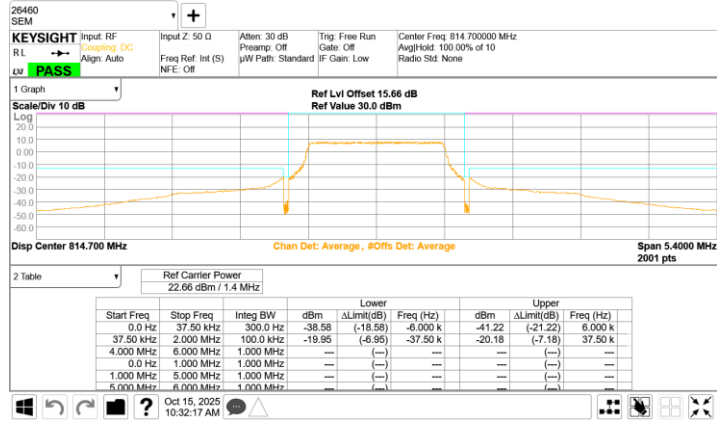


Low channel

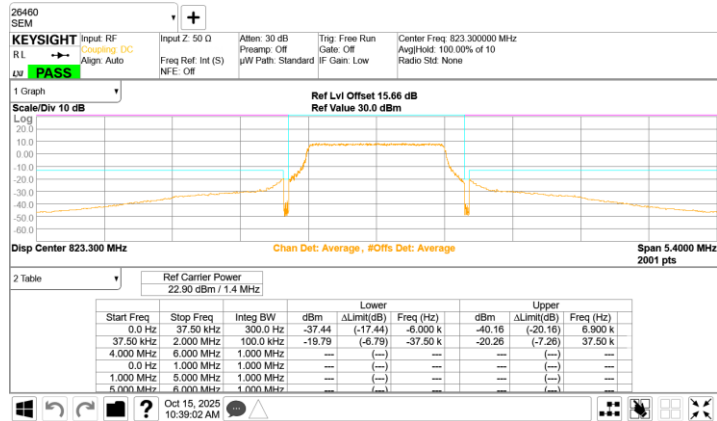


High channel

1.4 MHz
16QAM
FRB

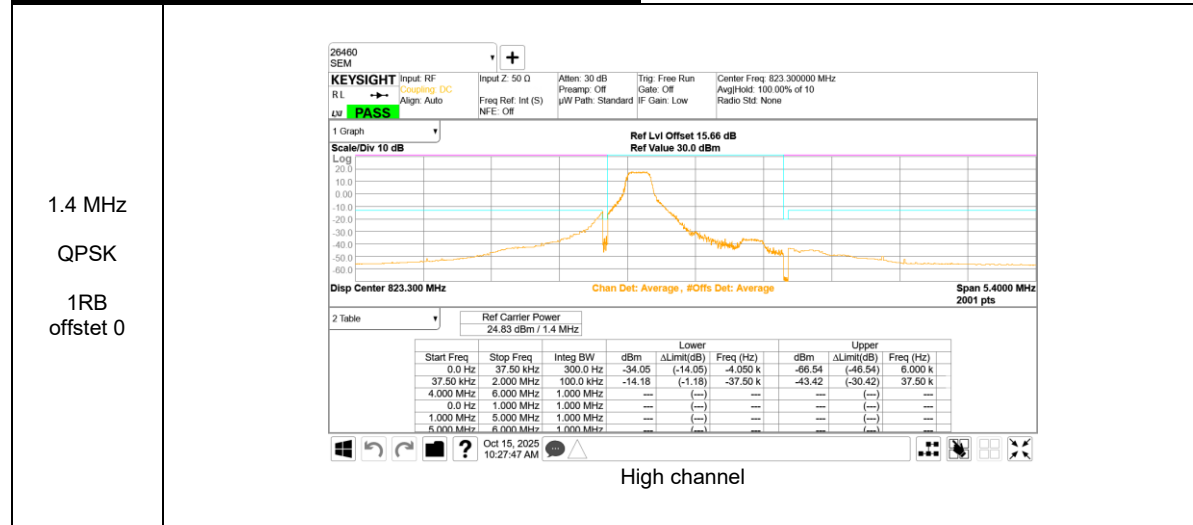


Low channel

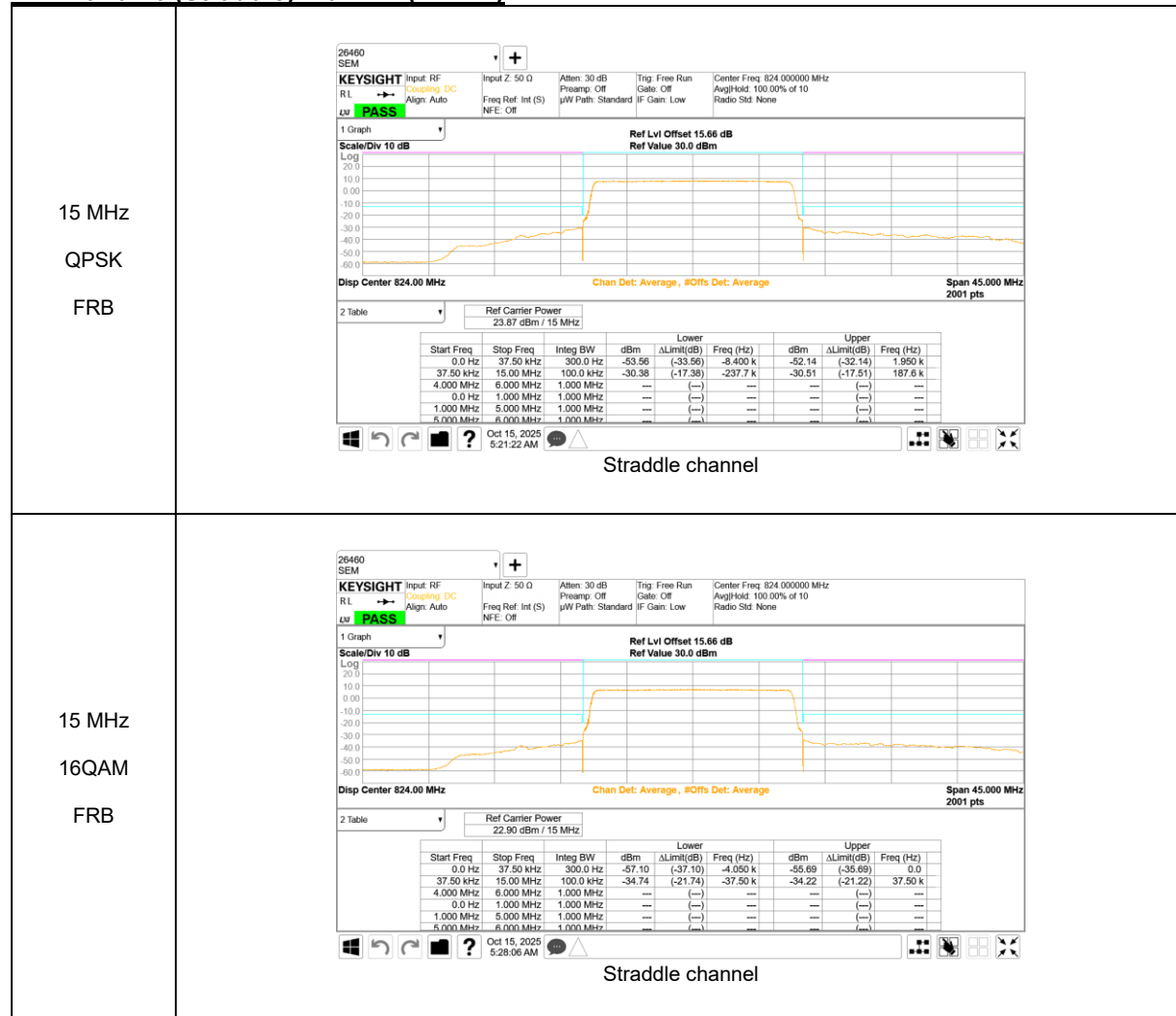


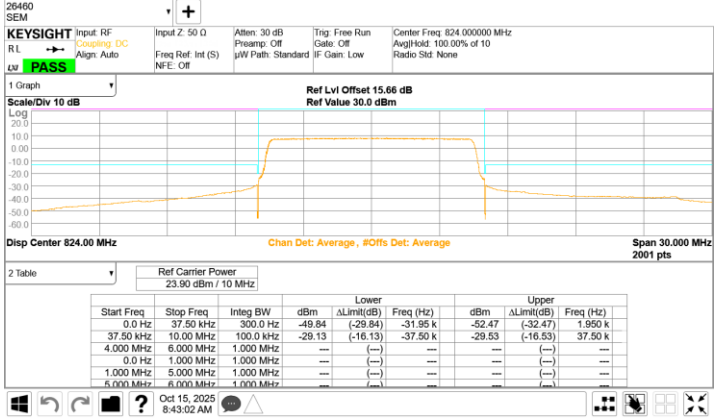
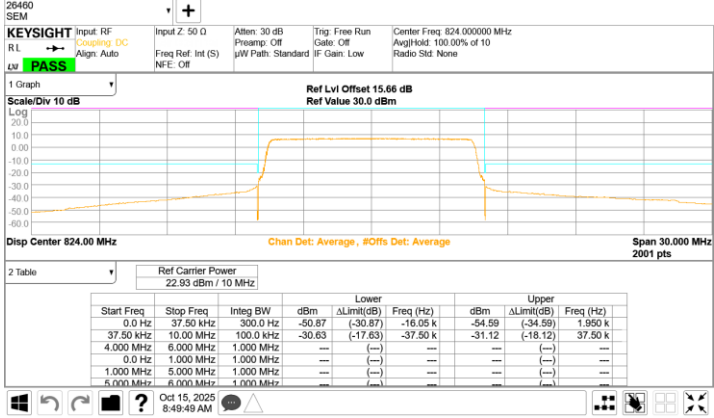
High channel

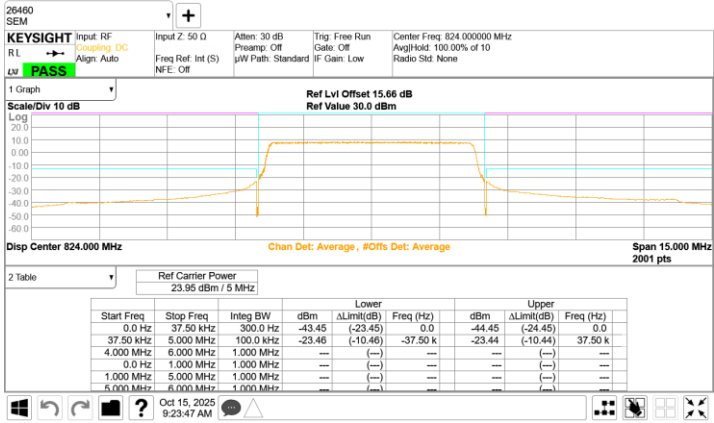
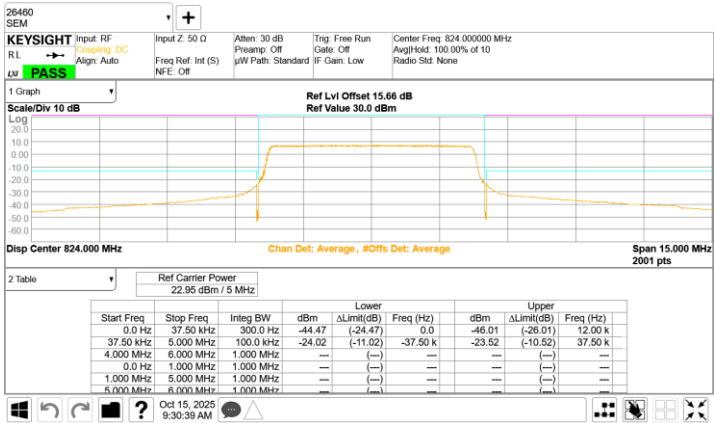
LTE Band 26 (Part 90) 1 RB (Worst Case) (ANT A)

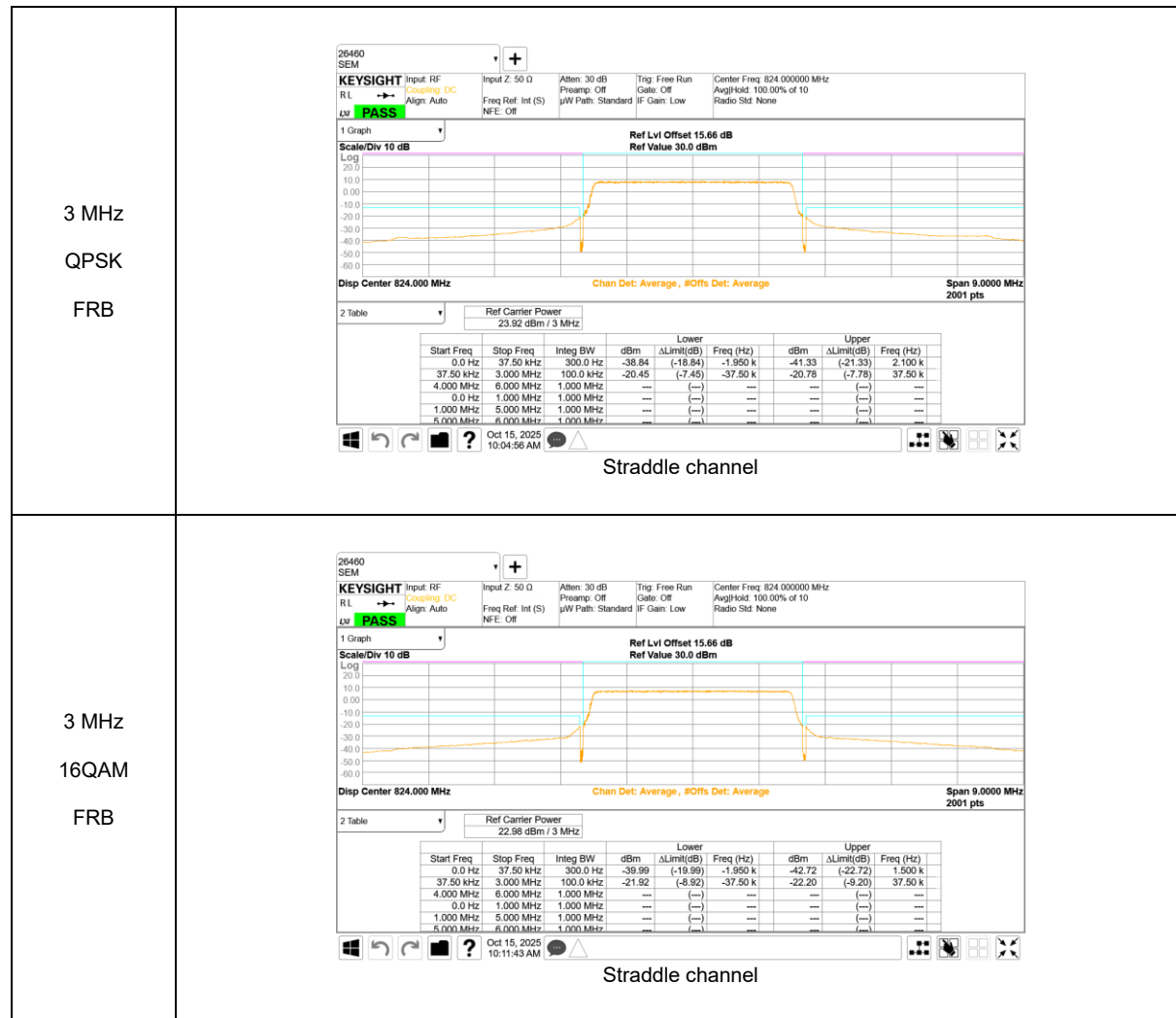


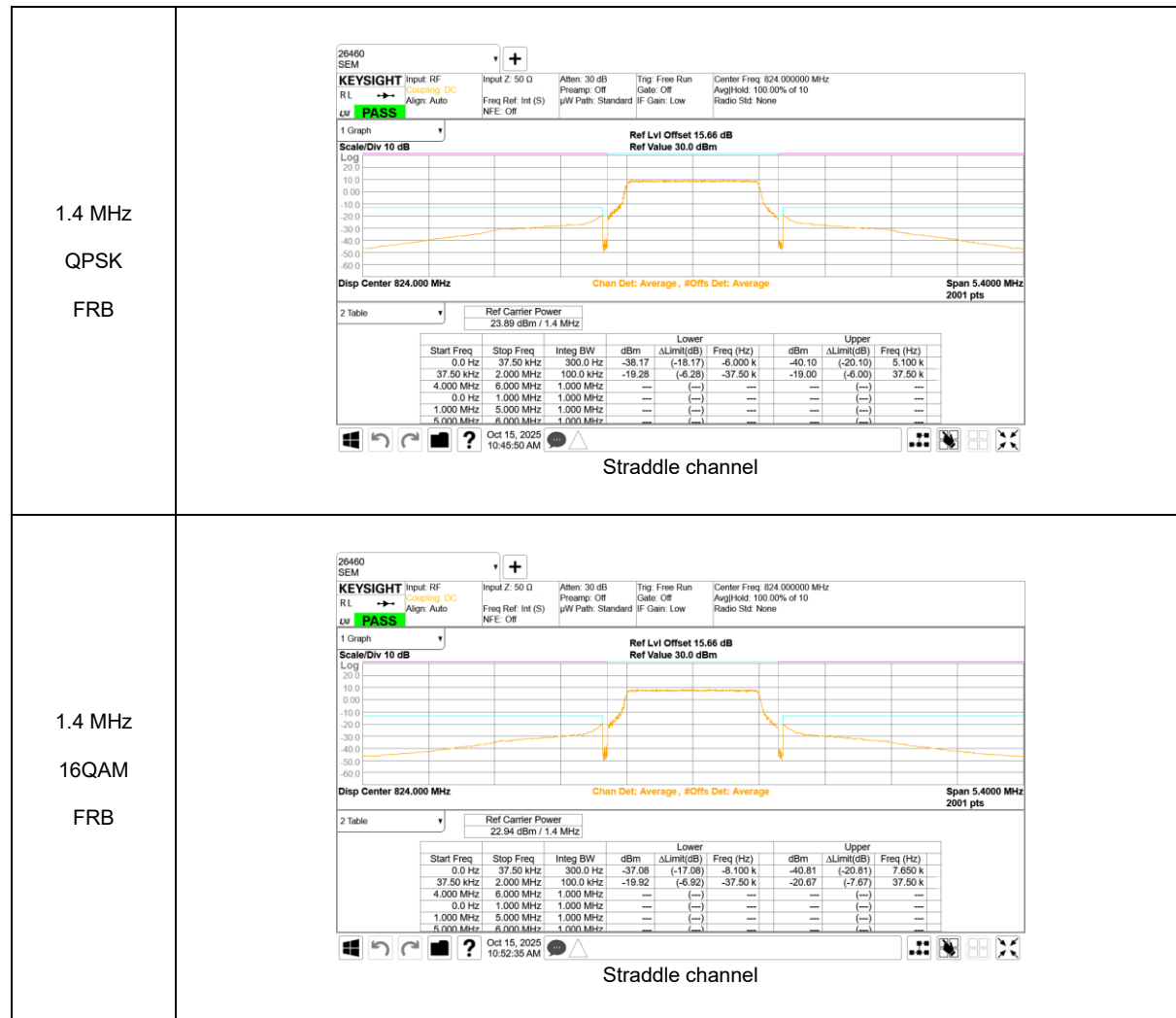
LTE Band 26 (Straddle) Full RB (ANT A)



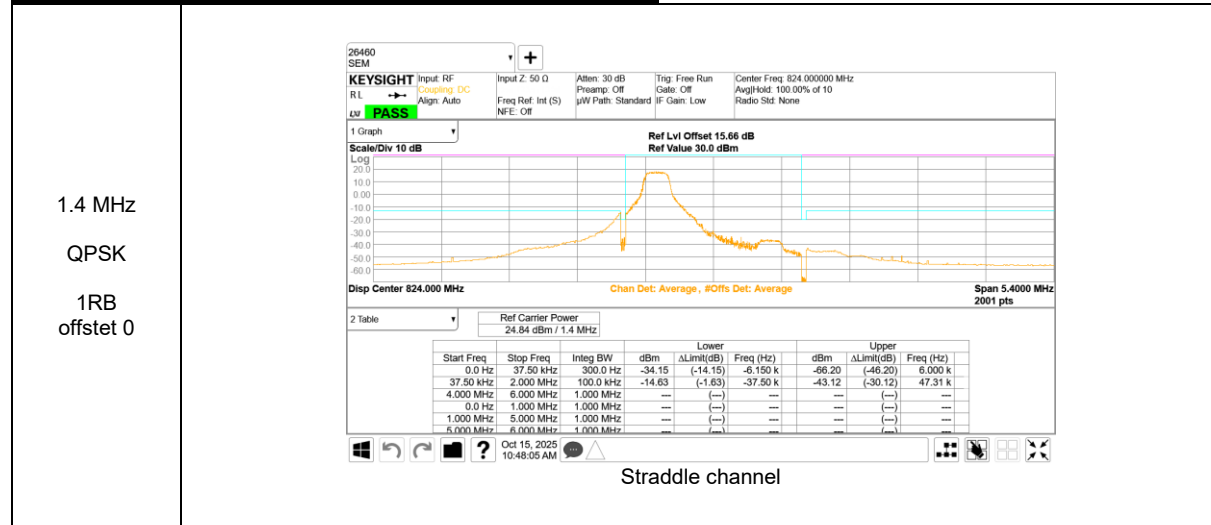
10 MHz QPSK FRB	 Straddle channel
10 MHz 16QAM FRB	 Straddle channel

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





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



NR Band n26 (Part 90) Full RB (ANT D)

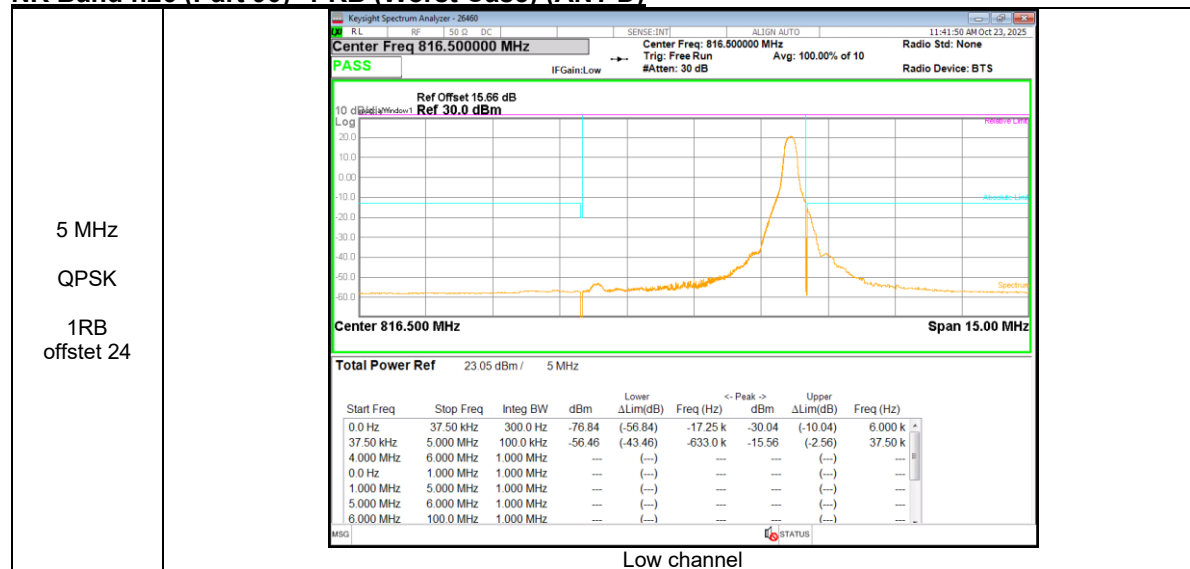








NR Band n26 (Part 90) 1 RB (Worst Case) (ANT D)



NR Band n26 (Straddle) Full RB (ANT D)

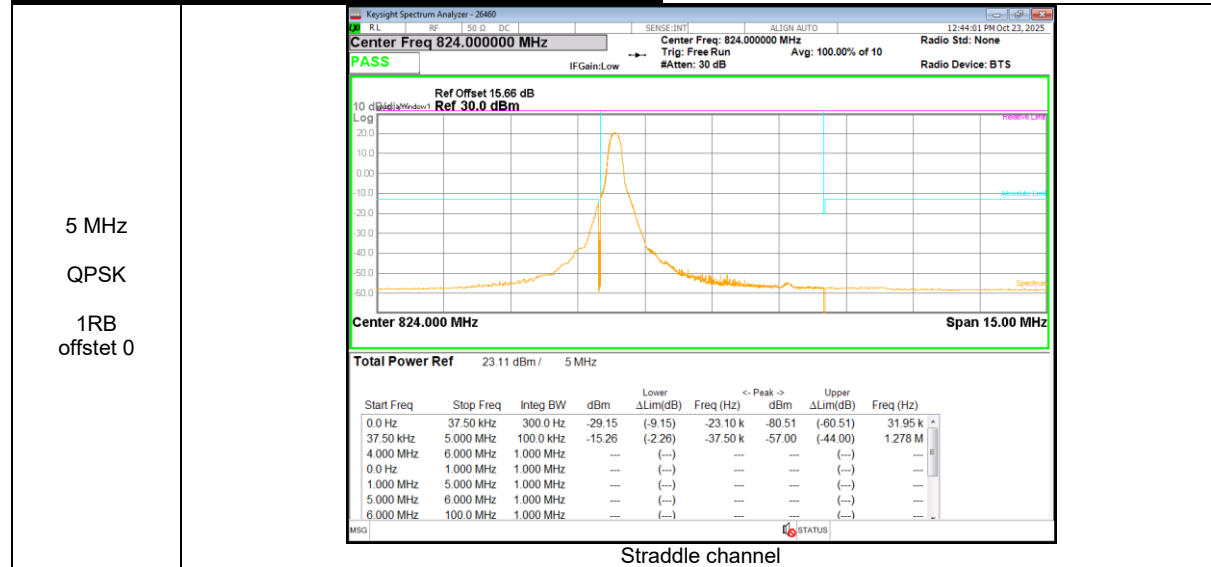








NR Band n26 (Straddle) 1 RB (Worst Case) (ANT D)



8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

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

LIMITS

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:

(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 $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ 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 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 $43 + 10 \log_{10}(P)$ 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.

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 $\geq 3 \times$ 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

GSM : It was tested at GPRS as worst case (the highest output power and density).

UMTS: It was tested at REL 99 as worst case (the highest output power and density).

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ 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.

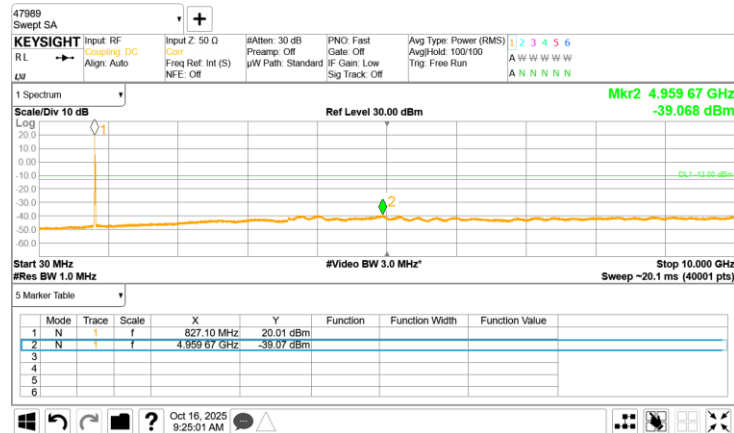
8.5.1. OUT OF BAND EMISSIONS RESULT

GSM 850 (ANT A)

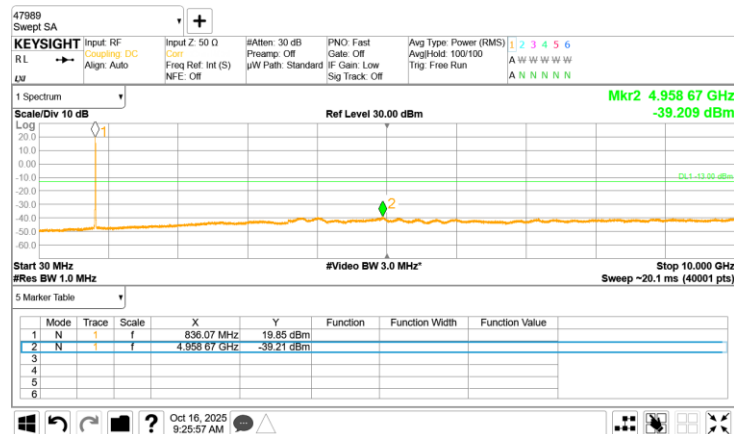


WCDMA Band 5 (ANT A)

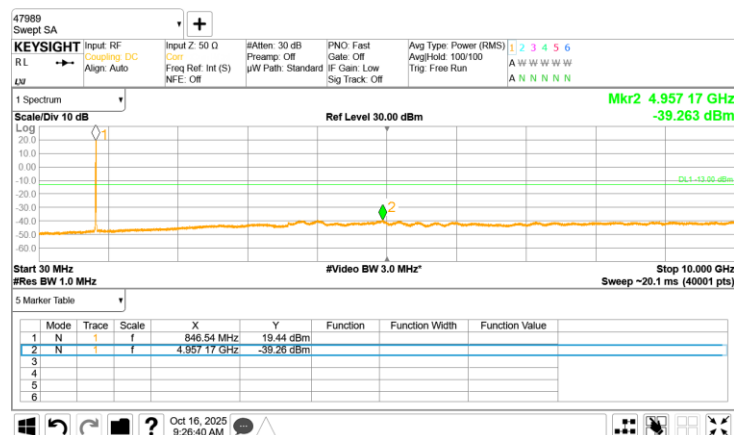
REL99



Low channel



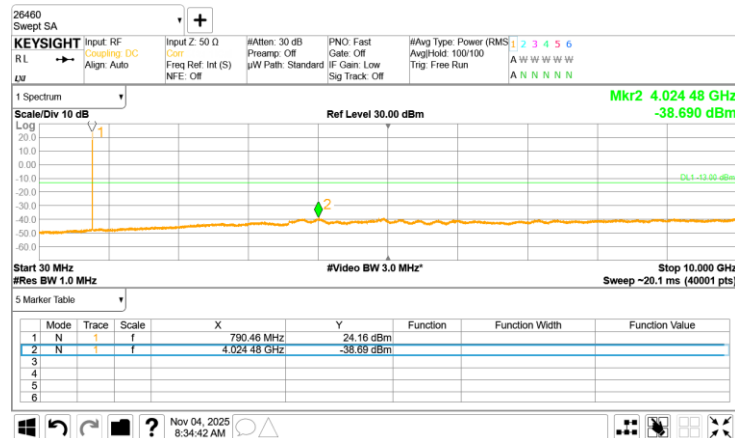
Mid channel



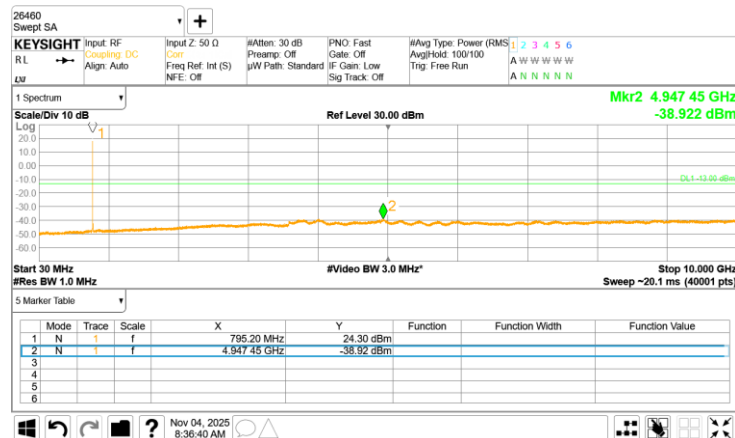
High channel

LTE Band 14 (ANT A)

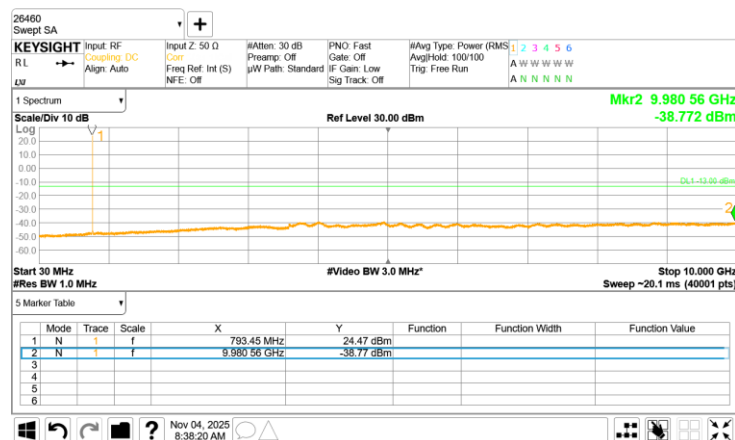
5 MHz QPSK



Low channel



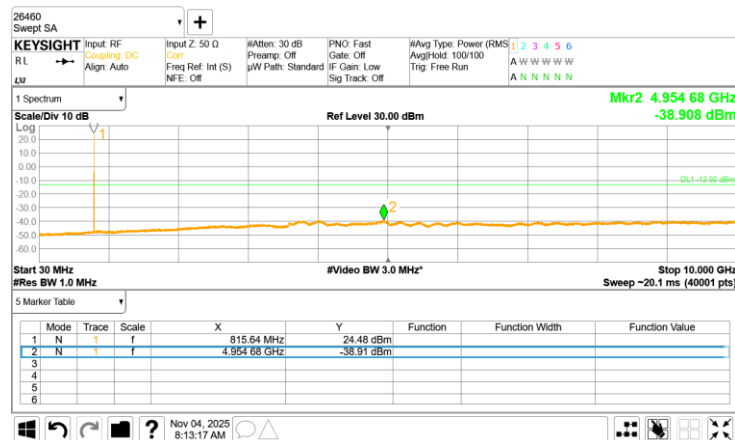
Mid channel



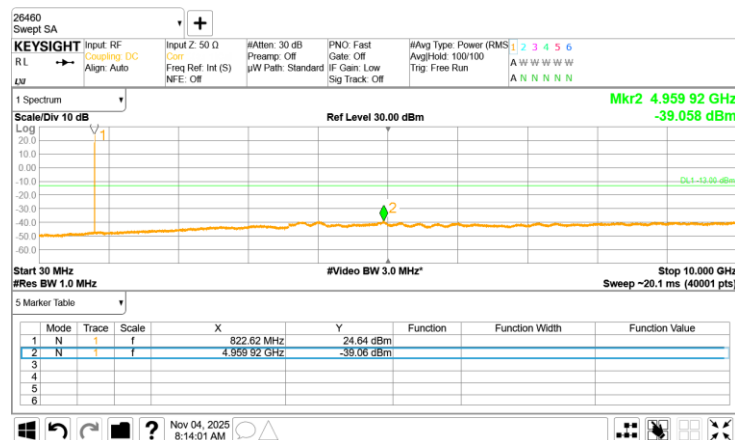
High channel

LTE Band 26 (Part 90) (ANT A)

3 MHz QPSK



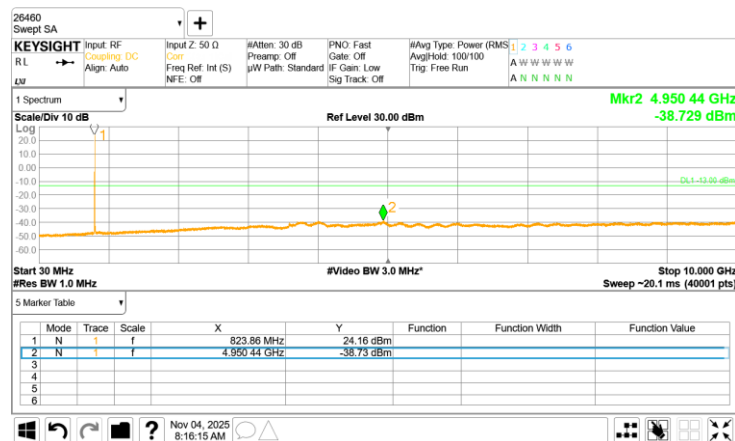
Low channel



Mid channel

LTE Band 26 (Straddle) (ANT A)

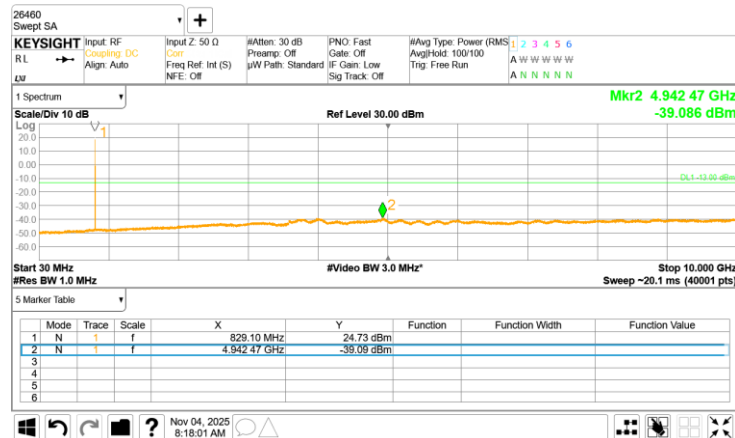
15 MHz QPSK



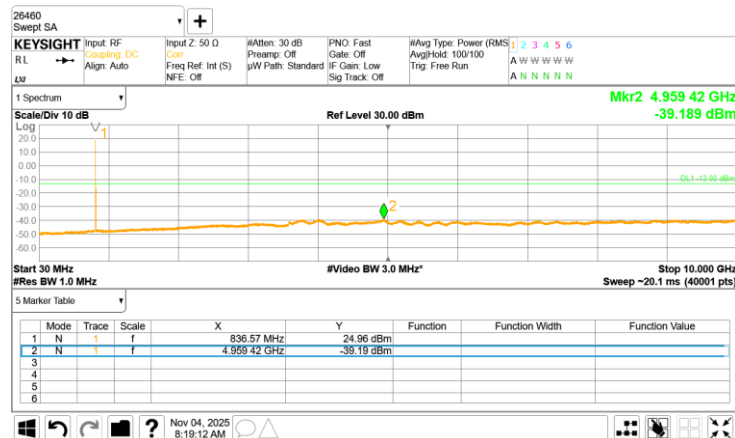
Straddle channel

LTE Band 26 (Part 22) (ANT A)

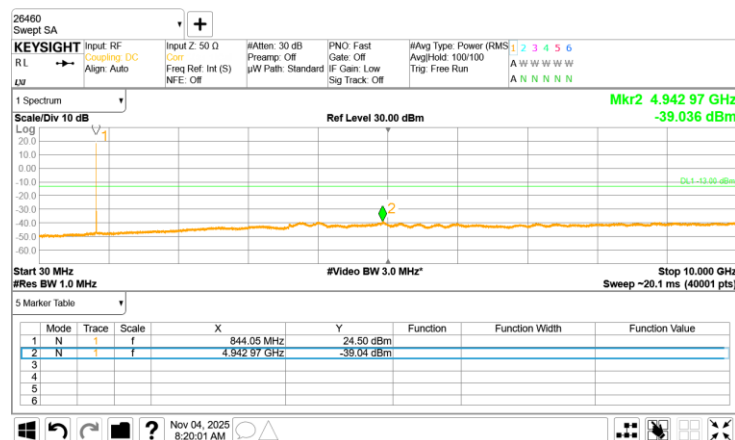
10 MHz QPSK



Low channel

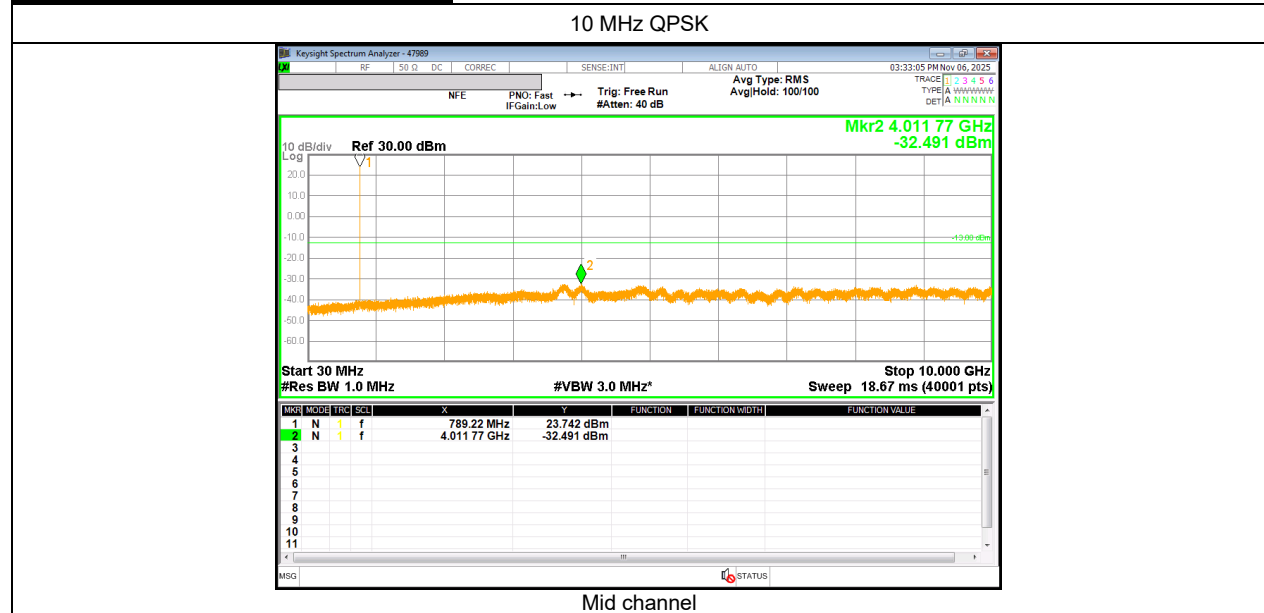


Mid channel



High channel

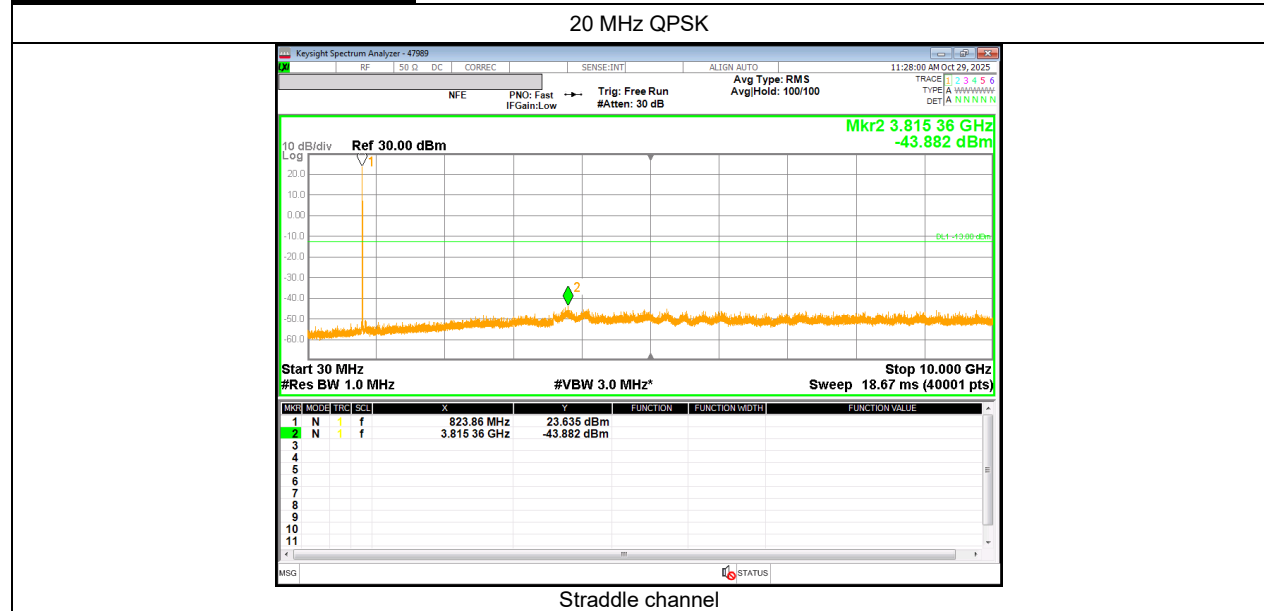
NR Band n14 DFT-s OFDM (ANT A)



NR Band n26 (Part 90) (ANT D)



NR Band n26 (Straddle) (ANT D)



NR Band n26 (Part 22) (ANT D)



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.

8.6.1. FREQUENCY STABILITY RESULT

GSM 850, Channel 128/251, Frequency 824.2/848.8 MHz

Test Date	2025-11-14
Test Engineer	22933

Reference Frequency : GSM850 Low Channel 824.2 MHz / High Channel 848.8 MHz @ 20°C						
Limit: +/- 2.5 ppm =	Low Channel	2060.500	Hz	High Channel	2122.000	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				
		Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	824.20005124	-0.019	848.80005119	-0.012	2.5
3.88	40	824.20005017	-0.017	848.80004669	-0.007	2.5
3.88	30	824.20004015	-0.005	848.80004458	-0.004	2.5
3.88	20	824.20003584	0.000	848.80004115	0.000	2.5
3.88	10	824.20003111	0.006	848.80003864	0.003	2.5
3.88	0	824.20002948	0.008	848.80003452	0.008	2.5
3.88	-10	824.20002551	0.013	848.80002067	0.024	2.5
3.88	-20	824.20002477	0.013	848.80002128	0.023	2.5
3.88	-30	824.20001563	0.025	848.80001481	0.031	2.5

Reference Frequency : GSM850 Low Channel 824.2 MHz / High Channel 848.8 MHz @ 20°C						
Limit: +/- 2.5 ppm =	Low Channel	2060.500	Hz	High Channel	2122.000	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				
		Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	20	824.20003584	0	848.80004115	0	2.5
4.45	20	824.20003680	-0.001	848.80003899	0.003	2.5
3.70	20	824.20001444	0.026	848.80001762	0.028	2.5

WCDMA Band 5

Test Date	2025-11-13
Test Engineer	22933

Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20°C						
Limit: +/- 2.5 ppm =	Low Channel	2066.000	Hz	High Channel	2116.500	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				
		Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	826.40004249	-0.007	846.60003848	-0.007	2.5
3.88	40	826.40003704	0.000	846.60003567	-0.004	2.5
3.88	30	826.40003829	-0.002	846.60003271	0.000	2.5
3.88	20	826.40003701	0.000	846.60003256	0.000	2.5
3.88	10	826.40002862	0.010	846.60002911	0.004	2.5
3.88	0	826.40002820	0.011	846.60002824	0.005	2.5
3.88	-10	826.40002526	0.014	846.60002199	0.012	2.5
3.88	-20	826.40002177	0.018	846.60002145	0.013	2.5
3.88	-30	826.40002082	0.020	846.60002025	0.015	2.5

Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20°C						
Limit: +/- 2.5 ppm =	Low Channel	2066.000	Hz	High Channel	2116.500	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				
		Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	20	826.40003701	0	846.60003256	0	2.5
4.45	20	826.40004009	-0.004	846.60003587	-0.004	2.5
3.70	20	826.40001436	0.027	846.60001568	0.020	2.5

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

Test Date	2025-11-12
Test Engineer	22933

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	788.2537	797.7488	44.5	0.056
Extreme (50C)		788.2537	797.7488		
Extreme (40C)		788.2537	797.7488		
Extreme (30C)		788.2537	797.7488		
Extreme (10C)		788.2537	797.7488		
Extreme (0C)		788.2537	797.7488		
Extreme (-10C)		788.2537	797.7488		
Extreme (-20C)		788.2537	797.7488		
Extreme (-30C)		788.2537	797.7488		
20C	15%	788.2537	797.7488	39.2	0.049
	-15%	788.2537	797.7488	21.9	0.028
	End Point	788.2537	797.7488	16.9	0.021

LTE Band 26

Test Date	2025-11-12
Test Engineer	22933

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C						
Limit: +- 2.5 ppm =	Low Channel	2036.750	Hz	High Channel	2120.750	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				
		Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	814.70004507	-0.009	848.30003849	-0.011	2.5
3.88	40	814.70003851	-0.001	848.30003878	-0.012	2.5
3.88	30	814.70004046	-0.003	848.30003197	-0.004	2.5
3.88	20	814.70003804	0.000	848.30002883	0.000	2.5
3.88	10	814.70003258	0.007	848.30002512	0.004	2.5
3.88	0	814.70003030	0.010	848.30002573	0.004	2.5
3.88	-10	814.70003062	0.009	848.30001856	0.012	2.5
3.88	-20	814.70002201	0.020	848.30002077	0.010	2.5
3.88	-30	814.70002553	0.015	848.30001483	0.017	2.5

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C							
Limit: +- 2.5 ppm =		Low Channel	2036.750	Hz	High Channel	2120.750	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse					
		Low Channel		High Channel		Limit [ppm]	
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]		
3.88	20	814.70003804	0	848.30002883	0	2.5	
4.45	20	814.70003971	-0.002	848.30004064	-0.014	2.5	
3.70	20	814.70001304	0.031	848.30001514	0.016	2.5	

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

Test Date	2025-11-11
Test Engineer	22933

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	788.2557	797.7551		
Extreme (50C)		788.2557	797.7551	44.3	0.056
Extreme (40C)		788.2557	797.7551	40.9	0.052
Extreme (30C)		788.2557	797.7551	34.1	0.043
Extreme (10C)		788.2557	797.7551	33.5	0.042
Extreme (0C)		788.2557	797.7551	32.4	0.041
Extreme (-10C)		788.2557	797.7551	27.7	0.035
Extreme (-20C)		788.2557	797.7551	27.1	0.034
Extreme (-30C)		788.2557	797.7551	23.1	0.029
20C	15%	788.2557	797.7551	37.7	0.048
	-15%	788.2557	797.7551	15.9	0.020
	End Point	788.2557	797.7551	9.6	0.012

NR Band n26

Test Date	2025-11-11
Test Engineer	22933

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C						
Limit: +- 2.5 ppm =	Low Channel	2036.750	Hz	High Channel	2120.750	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	814.70004394	-0.016	848.30003668	-0.011	2.5
3.88	40	814.70003857	-0.009	848.30003546	-0.010	2.5
3.88	30	814.70003478	-0.005	848.30003620	-0.010	2.5
3.88	20	814.70003094	0.000	848.30002731	0.000	2.5
3.88	10	814.70002885	0.003	848.30002578	0.002	2.5
3.88	0	814.70003097	0.000	848.30002812	-0.001	2.5
3.88	-10	814.70002451	0.008	848.30002507	0.003	2.5
3.88	-20	814.70002613	0.006	848.30001836	0.011	2.5
3.88	-30	814.70001955	0.014	848.30001993	0.009	2.5
Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C						
Limit: +- 2.5 ppm =	Low Channel	2036.750	Hz	High Channel	2120.750	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	20	814.70003094	0	848.30002731	0	2.5
4.45	20	814.70003868	-0.010	848.30003711	-0.012	2.5
3.70	20	814.70001196	0.023	848.30001138	0.019	2.5

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).

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

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 $\geq 1\%$ to 5% of the OBW;
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span $\geq 2 \times$ to $3 \times$ the OBW.;
- d) Sweep time = auto couple or Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ 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 $\geq 2 \times$ 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) over the entire channel bandwidth, and FRB configurations were also reported for the worst BW.

TEST RESULTS

See the following pages.

9.1.1. ERP RESULT

GSM (ANT A)

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)
GSM 850	GPRS	824.20	33.98	V	3.00	-1.03	29.95	0.989	38.50	-8.55
		836.60	35.35	V	3.02	-0.97	31.35	1.368	38.50	-7.14
		848.80	35.22	V	3.04	-0.91	31.27	1.340	38.50	-7.23
	EGPRS	824.20	28.83	V	3.00	-1.03	24.80	0.302	38.50	-13.70
		836.60	30.29	V	3.02	-0.97	26.30	0.427	38.50	-12.20
		848.80	29.94	V	3.04	-0.91	25.99	0.397	38.50	-12.51

GSM (ANT D)

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)
GSM 850	GPRS	824.20	32.12	V	3.00	-1.03	28.09	0.644	38.50	-10.41
		836.60	32.33	V	3.02	-0.97	28.34	0.682	38.50	-10.16
		848.80	32.35	V	3.04	-0.91	28.40	0.692	38.50	-10.10
	EGPRS	824.20	27.36	V	3.00	-1.03	23.33	0.215	38.50	-15.17
		836.60	27.66	V	3.02	-0.97	23.67	0.233	38.50	-14.83
		848.80	27.72	V	3.04	-0.91	23.77	0.238	38.50	-14.73

WCDMA (ANT A)

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	26.10	V	3.00	-1.02	22.08	0.161	38.50	-17.51
		836.60	27.11	V	3.02	-0.97	23.12	0.205	38.50	-16.91
		846.60	27.51	V	3.04	-0.92	23.55	0.226	38.50	-16.85
	HSDPA	826.40	24.86	H	3.00	-1.02	20.84	0.121	38.50	-19.04
		836.60	25.72	V	3.02	-0.97	21.73	0.149	38.50	-17.89
		846.60	25.53	V	3.04	-0.92	21.57	0.144	38.50	-17.79

WCDMA (ANT D)

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	25.01	V	3.00	-1.02	20.99	0.126	38.50	-16.42
		836.60	25.58	V	3.02	-0.97	21.59	0.144	38.50	-15.38
		846.60	25.61	V	3.04	-0.92	21.65	0.146	38.50	-14.95
	HSDPA	826.40	23.48	V	3.00	-1.02	19.46	0.088	38.50	-17.66
		836.60	24.60	V	3.02	-0.97	20.61	0.115	38.50	-16.77
		846.60	24.67	V	3.04	-0.92	20.71	0.118	38.50	-16.93

LTE Band 14 (ANT A)

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	27.07	V	2.94	-1.16	22.96	0.198	34.77	-11.81	1 / 0
	16-QAM	793.00	26.06	V	2.94	-1.16	21.95	0.157	34.77	-12.82	1 / 25
5	QPSK	790.50	27.05	V	2.94	-1.17	22.94	0.197	34.77	-11.83	1 / 25
		793.00	27.08	V	2.94	-1.16	22.97	0.198	34.77	-11.80	1 / 49
		795.50	27.21	V	2.94	-1.16	23.11	0.205	34.77	-11.66	1 / 0
		790.50	26.01	V	2.94	-1.17	21.90	0.155	34.77	-12.87	1 / 25
	16-QAM	793.00	26.06	V	2.94	-1.16	21.95	0.157	34.77	-12.82	1 / 0
		795.50	26.23	V	2.94	-1.16	22.13	0.163	34.77	-12.64	1 / 49
5	QPSK	790.50	26.04	V	2.94	-1.17	21.93	0.156	34.77	-12.84	25/0
		793.00	26.04	V	2.94	-1.16	21.93	0.156	34.77	-12.84	25/0
		795.50	26.16	V	2.94	-1.16	22.06	0.161	34.77	-12.71	25/0
	16-QAM	790.50	24.97	V	2.94	-1.17	20.86	0.122	34.77	-13.91	25/0
		793.00	24.96	V	2.94	-1.16	20.85	0.122	34.77	-13.92	25/0
		795.50	25.08	V	2.94	-1.16	20.98	0.125	34.77	-13.79	25/0

LTE Band 14 (ANT D)

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	23.90	V	2.94	-1.16	19.79	0.095	34.77	-14.98	1 / 0		
	16-QAM	793.00	22.88	V	2.94	-1.16	18.77	0.075	34.77	-16.00	1 / 25		
5	QPSK	790.50	24.15	V	2.94	-1.17	20.04	0.101	34.77	-14.73	1 / 0		
		793.00	23.55	V	2.94	-1.16	19.44	0.088	34.77	-15.33	1 / 25		
	16-QAM	795.50	23.36	V	2.94	-1.16	19.26	0.084	34.77	-15.51	1 / 25		
		790.50	23.08	V	2.94	-1.17	18.97	0.079	34.77	-15.80	1 / 25		
		793.00	22.58	V	2.94	-1.16	18.47	0.070	34.77	-16.30	1 / 25		
		795.50	22.33	V	2.94	-1.16	18.23	0.067	34.77	-16.54	1 / 0		
		5	QPSK	790.50	23.24	V	2.94	-1.17	19.13	0.082	34.77	-15.64	25/0
				793.00	22.62	V	2.94	-1.16	18.51	0.071	34.77	-16.26	25/0
16-QAM	795.50		22.61	V	2.94	-1.16	18.51	0.071	34.77	-16.26	25/0		
	790.50		22.18	V	2.94	-1.17	18.07	0.064	34.77	-16.70	25/0		
	793.00		21.54	V	2.94	-1.16	17.43	0.055	34.77	-17.34	25/0		
	795.50		21.55	V	2.94	-1.16	17.45	0.056	34.77	-17.32	25/0		

LTE Band 26 (ANT A)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
15	QPSK	821.50	24.91	H	2.99	-1.04	20.88	0.122	50.00	-29.12	1 / 74
		824.00	25.63	H	3.00	-1.03	21.60	0.145	38.50	-16.90	1 / 37
		831.50	26.52	V	3.01	-0.99	22.52	0.179	38.50	-15.98	1 / 37
		836.50	27.34	V	3.02	-0.97	23.35	0.216	38.50	-15.15	1 / 0
		841.50	27.39	V	3.03	-0.94	23.42	0.220	38.50	-15.08	1 / 0
	16-QAM	821.50	23.80	H	2.99	-1.04	19.77	0.095	50.00	-30.23	1 / 37
		824.00	24.61	H	3.00	-1.03	20.58	0.114	38.50	-17.92	1 / 74
		831.50	25.51	V	3.01	-0.99	21.51	0.142	38.50	-16.99	1 / 37
		836.50	26.25	V	3.02	-0.97	22.26	0.168	38.50	-16.24	1 / 37
		841.50	26.29	V	3.03	-0.94	22.32	0.171	38.50	-16.18	1 / 0
10	QPSK	819.00	25.07	H	2.99	-1.06	21.03	0.127	50.00	-28.97	1 / 25
		824.00	25.54	H	3.00	-1.03	21.51	0.142	38.50	-16.99	1 / 25
		829.00	26.08	V	3.01	-1.01	22.07	0.161	38.50	-16.43	1 / 25
		836.50	27.68	V	3.02	-0.97	23.69	0.234	38.50	-14.81	1 / 25
		844.00	27.25	V	3.03	-0.93	23.29	0.213	38.50	-15.21	1 / 25
	16-QAM	819.00	23.81	H	2.99	-1.06	19.77	0.095	50.00	-30.23	1 / 49
		824.00	24.81	H	3.00	-1.03	20.78	0.120	38.50	-17.72	1 / 49
		829.00	25.27	V	3.01	-1.01	21.26	0.134	38.50	-17.24	1 / 25
		836.50	26.19	V	3.02	-0.97	22.20	0.166	38.50	-16.30	1 / 25
		844.00	26.25	V	3.03	-0.93	22.29	0.169	38.50	-16.21	1 / 25
5	QPSK	816.50	25.11	H	2.98	-1.07	21.07	0.128	50.00	-29.03	1 / 12
		821.50	25.00	H	2.99	-1.04	20.97	0.125	50.00	-28.47	1 / 24
		824.00	25.56	H	3.00	-1.03	21.53	0.142	38.50	-16.77	1 / 12
		828.50	25.75	V	3.00	-1.02	21.73	0.149	38.50	-14.89	1 / 0
		836.50	27.60	V	3.02	-0.97	23.61	0.230	38.50	-15.62	1 / 12
	16-QAM	846.50	26.84	V	3.04	-0.92	22.88	0.194	38.50	-18.72	1 / 0
		816.50	23.82	H	2.98	-1.07	19.78	0.095	50.00	-30.16	1 / 12
		821.50	23.87	H	2.99	-1.04	19.84	0.096	50.00	-29.33	1 / 12
		824.00	24.70	H	3.00	-1.03	20.67	0.117	38.50	-17.85	1 / 0
		828.50	24.67	V	3.00	-1.02	20.65	0.116	38.50	-16.13	1 / 12
3	QPSK	836.50	26.36	V	3.02	-0.97	22.37	0.173	38.50	-16.85	1 / 12
		846.50	25.61	V	3.04	-0.92	21.65	0.146	38.50	-16.85	1 / 24
		815.50	25.19	H	2.98	-1.07	21.13	0.130	50.00	-28.87	1 / 8
		822.50	25.13	H	3.00	-1.04	21.10	0.129	50.00	-28.90	1 / 8
		824.00	25.56	H	3.00	-1.03	21.53	0.142	38.50	-16.97	1 / 14
	16-QAM	825.50	25.66	V	3.00	-1.02	21.64	0.146	38.50	-16.86	1 / 8
		836.50	27.67	V	3.02	-0.97	23.68	0.233	38.50	-14.82	1 / 8
		847.50	26.63	V	3.04	-0.91	22.68	0.185	38.50	-15.82	1 / 8
		815.50	23.98	H	2.98	-1.07	19.92	0.098	50.00	-30.08	1 / 0
		822.50	24.08	H	3.00	-1.04	20.05	0.101	50.00	-29.95	1 / 8
1.4	QPSK	824.00	24.67	H	3.00	-1.03	20.64	0.116	38.50	-17.86	1 / 8
		825.50	24.75	V	3.00	-1.02	20.73	0.118	38.50	-17.77	1 / 8
		836.50	26.35	V	3.02	-0.97	22.36	0.172	38.50	-16.14	1 / 8
		847.50	25.52	V	3.04	-0.91	21.57	0.144	38.50	-16.93	1 / 8
		814.70	24.97	H	2.98	-1.08	20.92	0.124	50.00	-29.08	1 / 0
	16-QAM	823.30	25.04	H	3.00	-1.03	21.01	0.126	50.00	-28.99	1 / 3
		824.00	25.52	H	3.00	-1.03	21.49	0.141	38.50	-17.01	1 / 5
		824.70	25.41	V	3.00	-1.03	21.39	0.138	38.50	-17.11	1 / 5
		836.50	27.54	V	3.02	-0.97	23.55	0.226	38.50	-14.95	1 / 3
		848.30	26.57	V	3.04	-0.91	22.62	0.183	38.50	-15.88	1 / 0
10	QPSK	814.70	23.64	H	2.98	-1.08	19.59	0.091	50.00	-30.41	1 / 0
		823.30	23.91	H	3.00	-1.03	19.88	0.097	50.00	-30.12	1 / 3
		824.00	24.61	H	3.00	-1.03	20.58	0.114	38.50	-17.92	1 / 3
		824.70	24.43	V	3.00	-1.03	20.41	0.110	38.50	-18.09	1 / 3
		836.50	26.36	V	3.02	-0.97	22.37	0.173	38.50	-16.13	1 / 3
	16-QAM	848.30	25.48	V	3.04	-0.91	21.53	0.142	38.50	-16.97	1 / 3
		819.00	24.03	H	2.99	-1.06	19.99	0.100	50.00	-30.01	50/0
		824.00	24.51	H	3.00	-1.03	20.48	0.112	38.50	-18.02	50/0
		829.00	25.27	V	3.01	-1.01	21.26	0.134	38.50	-17.24	50/0
		836.50	26.72	V	3.02	-0.97	22.73	0.187	38.50	-15.77	50/0
5	QPSK	844.00	26.13	V	3.03	-0.93	22.17	0.165	38.50	-16.33	50/0
		816.50	22.77	H	2.98	-1.07	18.73	0.075	50.00	-31.27	25/0
		821.50	22.87	H	2.99	-1.04	18.84	0.077	50.00	-31.16	25/0
		824.00	23.59	H	3.00	-1.03	19.56	0.090	38.50	-18.94	25/0
		826.50	23.71	V	3.00	-1.02	19.69	0.093	38.50	-18.81	25/0
	16-QAM	836.50	25.37	V	3.02	-0.97	21.38	0.137	38.50	-17.12	25/0
		846.50	24.64	V	3.04	-0.92	20.68	0.117	38.50	-17.82	25/0

LTE Band 26 (ANT D)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
15	QPSK	821.50	23.86	H	2.99	-1.04	19.83	0.096	50.00	-30.17	1/0
		824.00	23.95	V	3.00	-1.03	19.93	0.098	38.50	-18.57	1/74
		831.50	24.08	V	3.01	-0.99	20.08	0.102	38.50	-18.42	1/37
		836.50	24.05	V	3.02	-0.97	20.06	0.101	38.50	-18.44	1/0
		841.50	24.58	V	3.03	-0.94	20.61	0.115	38.50	-17.89	1/37
	16-QAM	821.50	22.86	H	2.99	-1.04	18.83	0.076	50.00	-31.17	1/37
		824.00	22.89	V	3.00	-1.03	18.87	0.077	38.50	-19.63	1/0
		831.50	23.02	V	3.01	-0.99	19.02	0.080	38.50	-19.48	1/37
		836.50	23.10	V	3.02	-0.97	19.11	0.081	38.50	-19.39	1/0
		841.50	23.66	V	3.03	-0.94	19.69	0.093	38.50	-18.81	1/0
10	QPSK	819.00	24.00	H	2.99	-1.06	19.96	0.099	50.00	-30.04	1/0
		824.00	20.41	H	3.00	-1.03	16.38	0.043	38.50	-22.12	1/0
		829.00	23.61	V	3.01	-1.01	19.60	0.091	38.50	-18.90	1/0
		836.50	24.32	V	3.02	-0.97	20.33	0.108	38.50	-18.17	1/25
		844.00	24.40	V	3.03	-0.93	20.44	0.111	38.50	-18.06	1/0
	16-QAM	819.00	22.92	H	2.99	-1.06	18.88	0.077	50.00	-31.12	1/25
		824.00	19.54	H	3.00	-1.03	15.51	0.036	38.50	-22.99	1/0
		829.00	22.54	V	3.01	-1.01	18.53	0.071	38.50	-19.97	1/25
		836.50	23.38	V	3.02	-0.97	19.39	0.087	38.50	-19.11	1/25
		844.00	23.47	V	3.03	-0.93	19.51	0.089	38.50	-18.99	1/25
5	QPSK	816.50	24.24	H	2.98	-1.07	20.20	0.105	50.00	-30.10	1/0
		821.50	23.93	H	2.99	-1.04	19.90	0.098	50.00	-29.83	1/0
		824.00	24.19	V	3.00	-1.03	20.17	0.104	38.50	-19.18	1/0
		828.50	23.34	V	3.00	-1.02	19.32	0.086	38.50	-18.17	1/24
		836.50	24.32	V	3.02	-0.97	20.33	0.108	38.50	-18.28	1/0
	16-QAM	846.50	24.18	V	3.04	-0.92	20.22	0.105	38.50	-19.75	1/0
		816.50	22.79	H	2.98	-1.07	18.75	0.075	50.00	-31.20	1/0
		821.50	22.83	H	2.99	-1.04	18.80	0.076	50.00	-30.91	1/12
		824.00	23.11	V	3.00	-1.03	19.09	0.081	38.50	-20.30	1/24
		828.50	22.22	V	3.00	-1.02	18.20	0.066	38.50	-19.00	1/12
3	QPSK	836.50	23.49	V	3.02	-0.97	19.50	0.089	38.50	-19.39	1/0
		846.50	23.07	V	3.04	-0.92	19.11	0.081	38.50	-19.39	1/12
		815.50	24.12	H	2.98	-1.07	20.06	0.101	50.00	-29.94	1/8
		822.50	23.99	H	3.00	-1.04	19.96	0.099	50.00	-30.04	1/8
		824.00	24.00	V	3.00	-1.03	19.98	0.100	38.50	-18.52	1/8
	16-QAM	825.50	23.26	V	3.00	-1.02	19.24	0.084	38.50	-19.26	1/8
		836.50	24.38	V	3.02	-0.97	20.39	0.109	38.50	-18.11	1/8
		847.50	23.95	V	3.04	-0.91	20.00	0.100	38.50	-18.50	1/8
		815.50	22.87	H	2.98	-1.07	18.81	0.076	50.00	-31.19	1/0
		822.50	22.70	H	3.00	-1.04	18.67	0.074	50.00	-31.33	1/8
1.4	QPSK	824.00	23.20	V	3.00	-1.03	19.18	0.083	38.50	-19.32	1/8
		825.50	22.11	V	3.00	-1.02	18.09	0.064	38.50	-20.41	1/8
		836.50	23.48	V	3.02	-0.97	19.49	0.089	38.50	-19.01	1/8
		847.50	23.14	V	3.04	-0.91	19.19	0.083	38.50	-19.31	1/8
		814.70	24.07	H	2.98	-1.08	20.02	0.100	50.00	-29.98	1/3
	16-QAM	823.30	23.99	H	3.00	-1.03	19.96	0.099	50.00	-30.04	1/0
		824.00	23.89	V	3.00	-1.03	19.87	0.097	38.50	-18.63	1/3
		824.70	23.23	V	3.00	-1.03	19.21	0.083	38.50	-19.29	1/5
		836.50	24.14	V	3.02	-0.97	20.15	0.104	38.50	-18.35	1/0
		848.30	23.87	V	3.04	-0.91	19.92	0.098	38.50	-18.58	1/5
15	QPSK	814.70	22.91	H	2.98	-1.08	18.86	0.077	50.00	-31.14	1/5
		823.30	22.86	H	3.00	-1.03	18.83	0.076	50.00	-31.17	1/3
		824.00	23.14	V	3.00	-1.03	19.12	0.082	38.50	-19.38	1/3
		824.70	22.21	V	3.00	-1.03	18.19	0.066	38.50	-20.31	1/0
		836.50	23.47	V	3.02	-0.97	19.48	0.089	38.50	-19.02	1/5
	16-QAM	848.30	22.77	V	3.04	-0.91	18.82	0.076	38.50	-19.68	1/3
		821.50	22.83	H	2.99	-1.04	18.80	0.076	50.00	-31.20	75/0
		824.00	22.98	V	3.00	-1.03	18.96	0.079	50.00	-31.04	75/0
		831.50	22.90	V	3.01	-0.99	18.90	0.078	38.50	-19.60	75/0
		836.50	22.98	V	3.02	-0.97	18.99	0.079	38.50	-19.51	75/0
15	QPSK	841.50	23.70	V	3.03	-0.94	19.73	0.094	38.50	-18.77	75/0
		821.50	21.73	H	2.99	-1.04	17.70	0.059	50.00	-32.30	75/0
		824.00	21.83	V	3.00	-1.03	17.81	0.060	50.00	-32.19	75/0
		831.50	22.02	V	3.01	-0.99	18.02	0.063	38.50	-20.48	75/0
		836.50	22.13	V	3.02	-0.97	18.14	0.065	38.50	-20.36	75/0
	16-QAM	841.50	22.64	V	3.03	-0.94	18.67	0.074	38.50	-19.83	75/0

NR Band n14 DFT-s OFDM (ANT A)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
10	QPSK	793.00	27.32	V	2.94	-1.16	23.21	0.209	34.77	-11.56	1 / 1
	16-QAM	793.00	25.98	V	2.94	-1.16	21.87	0.154	34.77	-12.90	1 / 49
5	QPSK	790.50	26.94	V	2.94	-1.17	22.83	0.192	34.77	-11.94	1 / 23
		793.00	27.10	V	2.94	-1.16	22.99	0.199	34.77	-11.78	1 / 12
		795.50	26.94	V	2.94	-1.16	22.84	0.192	34.77	-11.93	1 / 23
		790.50	25.69	V	2.94	-1.17	21.58	0.144	34.77	-13.19	1 / 23
	16-QAM	793.00	26.16	V	2.94	-1.16	22.05	0.160	34.77	-12.72	1 / 23
		795.50	25.90	V	2.94	-1.16	21.80	0.151	34.77	-12.97	1 / 12
		793.00	26.17	V	2.94	-1.16	22.06	0.161	34.77	-12.71	50/0
		790.50	24.58	V	2.94	-1.17	20.47	111.550	34.77	-14.30	25/0
5	16-QAM	793.00	25.07	V	2.94	-1.16	20.96	124.860	34.77	-13.81	25/0
		795.50	24.89	V	2.94	-1.16	20.79	119.900	34.77	-13.98	25/0

NR Band n14 DFT-s OFDM (ANT D)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
10	QPSK	793.00	23.97	V	2.94	-1.16	19.86	0.097	34.77	-14.91	1 / 1
	16-QAM	793.00	22.82	V	2.94	-1.16	18.71	0.074	34.77	-16.06	1 / 49
5	QPSK	790.50	23.90	V	2.94	-1.17	19.79	0.095	34.77	-14.98	1 / 23
		793.00	23.94	V	2.94	-1.16	19.83	0.096	34.77	-14.94	1 / 1
		795.50	23.90	V	2.94	-1.16	19.80	0.095	34.77	-14.97	1 / 1
		790.50	22.82	V	2.94	-1.17	18.71	0.074	34.77	-16.06	1 / 23
	16-QAM	793.00	22.86	V	2.94	-1.16	18.75	0.075	34.77	-16.02	1 / 1
		795.50	22.84	V	2.94	-1.16	18.74	0.075	34.77	-16.03	1 / 1
		793.00	22.97	V	2.94	-1.16	18.86	0.077	34.77	-15.91	50/0
		790.50	21.89	V	2.94	-1.17	17.78	0.060	34.77	-16.99	25/0
5	16-QAM	793.00	21.91	V	2.94	-1.16	17.80	0.060	34.77	-16.97	25/0
		795.50	21.91	V	2.94	-1.16	17.81	0.060	34.77	-16.96	25/0

NR Band n26 DFT-s OFDM (ANT A)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
20	QPSK	824.00	25.00	V	3.00	-1.03	20.98	0.125	38.50	-17.52	1 / 1
		834.00	26.03	V	3.02	-0.98	22.03	0.160	38.50	-16.47	1 / 1
		836.50	26.17	V	3.02	-0.97	22.18	0.165	38.50	-16.32	1 / 52
		839.00	26.58	V	3.03	-0.96	22.60	0.182	38.50	-15.90	1 / 1
	16-QAM	824.00	23.99	V	3.00	-1.03	19.97	0.099	38.50	-18.53	1 / 104
		834.00	25.01	V	3.02	-0.98	21.01	0.125	38.50	-17.49	1 / 52
		836.50	25.09	V	3.02	-0.97	21.10	0.129	38.50	-17.40	1 / 52
		839.00	25.60	V	3.03	-0.96	21.62	0.145	38.50	-16.88	1 / 1
15	QPSK	821.50	25.24	H	2.99	-1.04	21.21	0.132	50.00	-28.79	1 / 1
		824.00	24.94	V	3.00	-1.03	20.92	0.124	38.50	-17.58	1 / 1
		831.50	25.75	V	3.01	-0.99	21.75	0.150	38.50	-16.75	1 / 1
		836.50	26.28	V	3.02	-0.97	22.29	0.169	38.50	-16.21	1 / 1
	16-QAM	841.50	26.79	V	3.03	-0.94	22.82	0.191	38.50	-15.68	1 / 1
		821.50	24.21	H	2.99	-1.04	20.18	0.104	50.00	-29.82	1 / 1
		824.00	23.92	V	3.00	-1.03	19.90	0.098	38.50	-18.60	1 / 1
		831.50	24.53	V	3.01	-0.99	20.53	0.113	38.50	-17.97	1 / 1
10	QPSK	836.50	25.11	V	3.02	-0.97	21.12	0.129	38.50	-17.38	1 / 1
		841.50	25.71	V	3.03	-0.94	21.74	0.149	38.50	-16.76	1 / 1
	16-QAM	819.00	25.40	H	2.99	-1.06	21.36	0.137	50.00	-28.64	1 / 25
		824.00	24.98	V	3.00	-1.03	20.96	0.125	38.50	-17.54	1 / 25
		829.00	25.30	V	3.01	-1.01	21.29	0.135	38.50	-17.21	1 / 25
		836.50	26.22	V	3.02	-0.97	22.23	0.167	38.50	-16.27	1 / 1
	16-QAM	844.00	26.68	V	3.03	-0.93	22.72	0.187	38.50	-15.78	1 / 1
		819.00	24.34	H	2.99	-1.06	20.30	0.107	50.00	-29.70	1 / 1
5	QPSK	824.00	23.93	V	3.00	-1.03	19.91	0.098	38.50	-18.59	1 / 25
		829.00	24.18	V	3.01	-1.01	20.17	0.104	38.50	-18.33	1 / 1
		836.50	25.05	V	3.02	-0.97	21.06	0.128	38.50	-17.44	1 / 25
		844.00	25.45	V	3.03	-0.93	21.49	0.141	38.50	-17.01	1 / 1
	16-QAM	816.50	25.32	H	2.98	-1.07	21.28	0.134	50.00	-28.72	1 / 1
		821.50	25.23	H	2.99	-1.04	21.20	0.132	50.00	-28.80	1 / 23
		824.00	24.98	V	3.00	-1.03	20.96	0.125	38.50	-17.54	1 / 1
		826.50	25.06	V	3.00	-1.02	21.04	0.127	38.50	-17.46	1 / 1
15	QPSK	836.50	26.02	V	3.02	-0.97	22.03	0.160	38.50	-16.47	1 / 12
		846.50	26.22	V	3.04	-0.92	22.26	0.168	38.50	-16.24	1 / 12
	16-QAM	816.50	24.43	H	2.98	-1.07	20.39	0.109	50.00	-29.61	1 / 1
		821.50	24.27	H	2.99	-1.04	20.24	0.106	50.00	-29.76	1 / 1
		824.00	24.05	V	3.00	-1.03	20.03	0.101	38.50	-18.47	1 / 1
		826.50	23.85	V	3.00	-1.02	19.83	0.096	38.50	-18.67	1 / 1
	QPSK	836.50	24.94	V	3.02	-0.97	20.95	0.124	38.50	-17.55	1 / 1
		846.50	25.50	V	3.04	-0.92	21.54	0.143	38.50	-16.96	1 / 1
15	QPSK	821.50	24.32	H	2.99	-1.04	20.29	0.107	50.00	-29.71	75/0
		824.00	23.88	V	3.00	-1.03	19.86	0.097	38.50	-18.64	75/0
		831.50	24.69	V	3.01	-0.99	20.69	0.117	38.50	-17.81	75/0
		836.50	25.27	V	3.02	-0.97	21.28	0.134	38.50	-17.22	75/0
	16-QAM	841.50	25.70	V	3.03	-0.94	21.73	0.149	38.50	-16.77	75/0
		821.50	23.22	H	2.99	-1.04	19.19	0.083	50.00	-30.81	75/0
		824.00	22.92	V	3.00	-1.03	18.90	0.078	38.50	-19.60	75/0
		831.50	23.69	V	3.01	-0.99	19.69	0.093	38.50	-18.81	75/0
15	16-QAM	836.50	24.21	V	3.02	-0.97	20.22	0.105	38.50	-18.28	75/0
		841.50	24.64	V	3.03	-0.94	20.67	0.117	38.50	-17.83	75/0

NR Band n26 DFT-s OFDM (ANT D)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
20	QPSK	824.00	23.96	V	3.00	-1.03	19.94	0.099	38.50	-18.56	1 / 52
		834.00	24.50	V	3.02	-0.98	20.50	0.112	38.50	-18.00	1 / 1
		836.50	24.44	V	3.02	-0.97	20.45	0.111	38.50	-18.05	1 / 1
		839.00	24.55	V	3.03	-0.96	20.57	0.114	38.50	-17.93	1 / 1
	16-QAM	824.00	22.99	V	3.00	-1.03	18.97	0.079	38.50	-19.53	1 / 52
		834.00	23.49	V	3.02	-0.98	19.49	0.089	38.50	-19.01	1 / 1
		836.50	23.45	V	3.02	-0.97	19.46	0.088	38.50	-19.04	1 / 1
		839.00	23.99	V	3.03	-0.96	19.61	0.091	38.50	-18.89	1 / 1
15	QPSK	821.50	24.20	H	2.99	-1.04	20.17	0.104	50.00	-29.83	1 / 1
		824.00	23.70	V	3.00	-1.03	19.68	0.093	38.50	-18.82	1 / 1
		831.50	24.31	V	3.01	-0.99	20.31	0.107	38.50	-18.19	1 / 1
		836.50	24.84	V	3.02	-0.97	20.85	0.122	38.50	-17.65	1 / 1
		841.50	24.70	V	3.03	-0.94	20.73	0.118	38.50	-17.77	1 / 1
	16-QAM	821.50	23.01	H	2.99	-1.04	18.98	0.079	50.00	-31.02	1 / 1
		824.00	22.79	V	3.00	-1.03	18.77	0.075	38.50	-19.73	1 / 77
		831.50	23.22	V	3.01	-0.99	19.22	0.084	38.50	-19.28	1 / 1
		836.50	23.70	V	3.02	-0.97	19.71	0.094	38.50	-18.79	1 / 39
		841.50	23.63	V	3.03	-0.94	19.66	0.092	38.50	-18.84	1 / 1
10	QPSK	819.00	24.34	H	2.99	-1.06	20.30	0.107	50.00	-29.70	1 / 49
		824.00	23.70	V	3.00	-1.03	19.68	0.093	38.50	-18.82	1 / 25
		829.00	23.67	V	3.01	-1.01	19.66	0.092	38.50	-18.84	1 / 1
		836.50	24.73	V	3.02	-0.97	20.74	0.119	38.50	-17.76	1 / 1
		844.00	24.45	V	3.03	-0.93	20.49	0.112	38.50	-18.01	1 / 1
	16-QAM	819.00	23.18	H	2.99	-1.06	19.14	0.082	50.00	-30.86	1 / 49
		824.00	22.78	V	3.00	-1.03	18.76	0.075	38.50	-19.74	1 / 25
		829.00	22.76	V	3.01	-1.01	18.75	0.075	38.50	-19.75	1 / 49
		836.50	23.56	V	3.02	-0.97	19.57	0.091	38.50	-18.93	1 / 1
		844.00	23.55	V	3.03	-0.93	19.59	0.091	38.50	-18.91	1 / 1
5	QPSK	816.50	24.40	H	2.98	-1.07	20.36	0.109	50.00	-29.64	1 / 12
		821.50	23.95	H	2.99	-1.04	19.92	0.098	50.00	-30.08	1 / 12
		824.00	23.83	V	3.00	-1.03	19.81	0.096	38.50	-18.69	1 / 12
		826.50	23.80	V	3.00	-1.02	19.78	0.095	38.50	-18.72	1 / 12
		836.50	24.19	V	3.02	-0.97	20.20	0.105	38.50	-18.30	1 / 12
		846.50	24.09	V	3.04	-0.92	20.13	0.103	38.50	-18.37	1 / 12
	16-QAM	816.50	23.28	H	2.98	-1.07	19.24	0.084	50.00	-30.76	1 / 49
		821.50	22.92	H	2.99	-1.04	18.89	0.077	50.00	-31.11	1 / 49
		824.00	22.90	V	3.00	-1.03	18.88	0.077	38.50	-19.62	1 / 25
		826.50	22.43	V	3.00	-1.02	18.41	0.069	38.50	-20.09	1 / 49
		836.50	23.60	V	3.02	-0.97	19.61	0.091	38.50	-18.89	1 / 49
		846.50	23.18	V	3.04	-0.92	19.22	0.084	38.50	-19.28	1 / 49
15	QPSK	821.50	23.13	H	2.99	-1.04	19.10	0.081	50.00	-30.90	75/0
		824.00	22.98	V	3.00	-1.03	18.96	0.079	50.00	-31.04	75/0
		831.50	23.13	V	3.01	-0.99	19.13	0.082	38.50	-19.37	75/0
		836.50	23.37	V	3.02	-0.97	19.38	0.087	38.50	-19.12	75/0
		841.50	23.64	V	3.03	-0.94	19.67	0.093	38.50	-18.83	75/0
	16-QAM	821.50	21.93	H	2.99	-1.04	17.90	0.062	50.00	-32.10	75/0
		824.00	21.93	V	3.00	-1.03	17.91	0.062	50.00	-32.09	75/0
		831.50	22.15	V	3.01	-0.99	18.15	0.065	38.50	-20.35	75/0
		836.50	22.45	V	3.02	-0.97	18.46	0.070	38.50	-20.04	75/0
		841.50	22.74	V	3.03	-0.94	18.77	0.075	38.50	-19.73	75/0

9.2. RADIATED 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 $43 + 10 \log(P)$ 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(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:

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

§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 $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ 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 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 $43 + 10 \log_{10}(P)$ 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.

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.
- b) Set VBW $\geq 3 \times$ 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 $\geq 2 \times$ span/RBW;
- g) Trace mode = average(WCDMA, LTE, 5G NR), Maxhold(GSM);

NOTE1

GSM : It was tested at GPRS as worst case (the highest output power and density).

UMTS: It was tested at REL 99 as worst case (the highest output power and density).

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ 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.

9.2.1. SPURIOUS RADIATION RESULT

GSM850

GPRS ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Company: Samsung									
	Project #: 4791963822									
	Date: 2025-10-03									
	Test Engineer: 26087									
	Configuration: EUT / AC Adapter, Z-Position, Open									
	Location: Chamber 1									
	Mode: GPRS 850 MHz Harmonics									
	Test Voltage: AC 120 V, 60 Hz									
	Low Ch, 824.2MHz									
	1648.40	-52.8	V	3.0	-7.3	11.74	-48.3	-13.0	-35.3	
	2472.60	-47.4	V	3.0	-2.6	11.74	-38.3	-13.0	-25.3	
	3296.80	-62.1	V	3.0	-1.1	11.74	-51.4	-13.0	-38.4	
	1648.40	-50.8	H	3.0	-7.3	11.74	-46.4	-13.0	-33.4	
	2472.60	-42.1	H	3.0	-2.6	11.74	-33.0	-13.0	-20.0	
	3296.80	-62.4	H	3.0	-1.1	11.74	-51.7	-13.0	-38.7	
	Mid Ch, 836.6MHz									
	1673.20	-50.9	H	3.0	-7.1	11.74	-46.3	-13.0	-33.3	
	2509.80	-47.2	H	3.0	-2.5	11.74	-38.0	-13.0	-25.0	
	3346.40	-62.1	H	3.0	-0.9	11.74	-51.2	-13.0	-38.2	
	High Ch, 848.8MHz									
	1697.60	-49.9	H	3.0	-7.0	11.74	-45.1	-13.0	-32.1	
	2546.40	-44.2	H	3.0	-2.4	11.74	-34.9	-13.0	-21.9	
	3395.20	-61.9	H	3.0	-0.7	11.74	-50.8	-13.0	-37.8	
GPRS ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Company: Samsung									
	Project #: 4791963822									
	Date: 2025-10-16									
	Test Engineer: 33535									
	Configuration: EUT / Z-Position, Open									
	Location: Chamber 1									
	Mode: GPRS 850 MHz Harmonics									
	Test Voltage: AC 120 V, 60 Hz									
	Low Ch, 824.2MHz									
	1648.40	-54.8	V	3.0	-7.3	11.74	-50.3	-13.0	-37.3	
	2472.60	-52.7	V	3.0	-2.6	11.74	-43.6	-13.0	-30.6	
	3296.80	-74.2	V	3.0	-1.1	11.74	-63.5	-13.0	-50.5	
	4121.00	-74.8	V	3.0	0.6	11.74	-62.5	-13.0	-49.5	
	1648.40	-61.2	H	3.0	-7.3	11.74	-56.7	-13.0	-43.7	
	2472.60	-48.6	H	3.0	-2.6	11.74	-39.5	-13.0	-26.5	
	3296.80	-74.2	H	3.0	-1.1	11.74	-63.6	-13.0	-50.6	
	4121.00	-74.8	H	3.0	0.6	11.74	-62.5	-13.0	-49.5	
	Mid Ch, 836.6MHz									
	1673.20	-64.8	H	3.0	-7.1	11.74	-60.2	-13.0	-47.2	
	2509.80	-51.8	H	3.0	-2.5	11.74	-42.5	-13.0	-29.5	
	3346.40	-74.6	H	3.0	-0.9	11.74	-63.7	-13.0	-50.7	
	4183.00	-74.2	H	3.0	0.5	11.74	-62.0	-13.0	-49.0	
	High Ch, 848.8MHz									
	1697.60	-61.4	H	3.0	-7.0	11.74	-56.6	-13.0	-43.6	
	2546.40	-49.0	H	3.0	-2.4	11.74	-39.7	-13.0	-26.7	
	3395.20	-74.6	H	3.0	-0.7	11.74	-63.6	-13.0	-50.6	
	4244.00	-74.6	H	3.0	0.7	11.74	-62.2	-13.0	-49.2	

WCDMA Band 5

REL99 ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-05 Test Engineer: 26087 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 1 Mode: Rel99 Band 5 Harmonics Test Votage: AC 120 V, 60 Hz <table><thead><tr><th>f MHz</th><th>SA reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>AFCL (dB/m)</th><th>Conversion Factor(dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr></thead><tbody><tr><td colspan="10">Low Ch, 826.4MHz</td></tr><tr><td>1652.80</td><td>-63.7</td><td>V</td><td>3.0</td><td>-7.2</td><td>11.74</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr><tr><td>2479.20</td><td>-63.2</td><td>V</td><td>3.0</td><td>-2.6</td><td>11.74</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr><tr><td>3305.60</td><td>-63.6</td><td>V</td><td>3.0</td><td>-1.0</td><td>11.74</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td colspan="10">Mid Ch, 836.6MHz</td></tr><tr><td>1673.20</td><td>-63.9</td><td>V</td><td>3.0</td><td>-7.1</td><td>11.74</td><td>-59.3</td><td>-13.0</td><td>-46.3</td><td></td></tr><tr><td>2509.80</td><td>-62.8</td><td>V</td><td>3.0</td><td>-2.5</td><td>11.74</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>3346.40</td><td>-63.0</td><td>V</td><td>3.0</td><td>-0.9</td><td>11.74</td><td>-52.2</td><td>-13.0</td><td>-39.2</td><td></td></tr><tr><td>1673.20</td><td>-63.8</td><td>H</td><td>3.0</td><td>-7.1</td><td>11.74</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr><tr><td>2509.80</td><td>-62.9</td><td>H</td><td>3.0</td><td>-2.5</td><td>11.74</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr><tr><td>3346.40</td><td>-63.2</td><td>H</td><td>3.0</td><td>-0.9</td><td>11.74</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr><tr><td colspan="10">High Ch, 846.6MHz</td></tr><tr><td>1693.20</td><td>-64.0</td><td>V</td><td>3.0</td><td>-7.0</td><td>11.74</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr><tr><td>2539.80</td><td>-63.6</td><td>V</td><td>3.0</td><td>-2.5</td><td>11.74</td><td>-54.3</td><td>-13.0</td><td>-41.3</td><td></td></tr><tr><td>3386.40</td><td>-63.3</td><td>V</td><td>3.0</td><td>-0.7</td><td>11.74</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr></tbody></table>										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	-63.7	V	3.0	-7.2	11.74	-59.2	-13.0	-46.2		2479.20	-63.2	V	3.0	-2.6	11.74	-54.1	-13.0	-41.1		3305.60	-63.6	V	3.0	-1.0	11.74	-52.9	-13.0	-39.9		Mid Ch, 836.6MHz										1673.20	-63.9	V	3.0	-7.1	11.74	-59.3	-13.0	-46.3		2509.80	-62.8	V	3.0	-2.5	11.74	-53.6	-13.0	-40.6		3346.40	-63.0	V	3.0	-0.9	11.74	-52.2	-13.0	-39.2		1673.20	-63.8	H	3.0	-7.1	11.74	-59.2	-13.0	-46.2		2509.80	-62.9	H	3.0	-2.5	11.74	-53.7	-13.0	-40.7		3346.40	-63.2	H	3.0	-0.9	11.74	-52.3	-13.0	-39.3		High Ch, 846.6MHz										1693.20	-64.0	V	3.0	-7.0	11.74	-59.2	-13.0	-46.2		2539.80	-63.6	V	3.0	-2.5	11.74	-54.3	-13.0	-41.3		3386.40	-63.3	V	3.0	-0.7	11.74	-52.3	-13.0	-39.3																																									
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2539.80	-71.9	H	3.0	-2.5	11.74	-62.6	-13.0	-49.6																																																																																																																																																																																																										
3386.40	-75.2	H	3.0	-0.7	11.74	-64.2	-13.0	-51.2																																																																																																																																																																																																										
4233.00	-75.1	H	3.0	0.7	11.74	-62.7	-13.0	-49.7																																																																																																																																																																																																										

LTE Band 14

5 MHz QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4791963822 Date: 2025-10-14 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 14 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, 790.5MHz									
	1581.00	-67.7	V	3.0	-7.6	11.74	-63.6	-40.0	-23.6	
	2371.50	-63.7	V	3.0	-2.9	11.74	-54.9	-13.0	-41.9	
	3162.00	-63.3	V	3.0	-1.0	11.74	-52.6	-13.0	-39.6	
	Mid Ch, 793MHz									
	1586.00	-67.0	V	3.0	-7.6	11.74	-62.8	-40.0	-22.8	
	2379.00	-63.6	V	3.0	-2.9	11.74	-54.8	-13.0	-41.8	
	3172.00	-63.4	V	3.0	-1.0	11.74	-52.6	-13.0	-39.6	
	High Ch, 795.5MHz									
	1591.00	-66.8	V	3.0	-7.6	11.74	-62.6	-40.0	-22.6	
	2386.50	-63.6	V	3.0	-2.9	11.74	-54.7	-13.0	-41.7	
	3182.00	-63.3	V	3.0	-1.0	11.74	-52.6	-13.0	-39.6	
	1591.00	-71.2	H	3.0	-7.6	11.74	-67.0	-40.0	-27.0	
	2386.50	-63.4	H	3.0	-2.9	11.74	-54.6	-13.0	-41.6	
	3182.00	-63.5	H	3.0	-1.0	11.74	-52.7	-13.0	-39.7	
	5 MHz QPSK ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
Company: Samsung Project #: 4791963822 Date: 2025-10-16 Test Engineer: 33535 Configuration: EUT / Y-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 14 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, 790.5MHz										
1581.00		-71.1	H	3.0	-7.6	11.74	-66.9	-40.0	-26.9	
2371.50		-73.7	H	3.0	-2.9	11.74	-64.9	-13.0	-51.9	
3162.00		-75.4	H	3.0	-1.0	11.74	-64.7	-13.0	-51.7	
Mid Ch, 793MHz										
1586.00		-71.3	H	3.0	-7.6	11.74	-67.1	-40.0	-27.1	
2379.00		-73.4	H	3.0	-2.9	11.74	-64.5	-13.0	-51.5	
3172.00		-75.4	H	3.0	-1.0	11.74	-64.7	-13.0	-51.7	
High Ch, 795.5MHz										
1591.00		-72.2	V	3.0	-7.6	11.74	-68.1	-40.0	-28.1	
2386.50		-74.3	V	3.0	-2.9	11.74	-65.4	-13.0	-52.4	
3182.00		-75.4	V	3.0	-1.0	11.74	-64.7	-13.0	-51.7	
1591.00		-71.1	H	3.0	-7.6	11.74	-66.9	-40.0	-26.9	
2386.50		-72.8	H	3.0	-2.9	11.74	-63.9	-13.0	-50.9	
3182.00		-75.6	H	3.0	-1.0	11.74	-64.8	-13.0	-51.8	

LTE Band 26 (Part 90)

3 MHz QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-13 Test Engineer: 33535 Configuration: EUT / AC Adapter, Y-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 26(Part90) Harmonics, 3MHz 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
5 MHz QPSK ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-15 Test Engineer: 33535 Configuration: EUT / X-Position, Open Location: Chamber 1 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

LTE Band 26 (Straddle)

15 MHz

QPSK

ANT A

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 4791963822

Date: 2025-10-13

Test Engineer: 33535

Configuration: EUT / AC Adapter, Y-Position, FF

Location: Chamber 1

Mode: LTE_QPSK Band 26 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
Straddle Ch, 824MHz									
1648.00	-72.1	V	3.0	-7.3	11.74	-67.7	-13.0	-54.7	
2472.00	-62.8	V	3.0	-2.6	11.74	-53.7	-13.0	-40.7	
3296.00	-75.6	V	3.0	-1.1	11.74	-64.9	-13.0	-51.9	
4120.00	-75.9	V	3.0	0.6	11.74	-63.6	-13.0	-50.6	
1648.00	-71.5	H	3.0	-7.3	11.74	-67.1	-13.0	-54.1	
2472.00	-62.5	H	3.0	-2.6	11.74	-53.4	-13.0	-40.4	
3296.00	-75.8	H	3.0	-1.1	11.74	-65.1	-13.0	-52.1	
4120.00	-75.9	H	3.0	0.6	11.74	-63.6	-13.0	-50.6	

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 4791963822

Date: 2025-10-15

Test Engineer: 33535

Configuration: EUT / X-Position, Open

Location: Chamber 1

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	-70.4	V	3.0	-7.3	11.74	-65.9	-13.0	-52.9	
2472.00	-72.0	V	3.0	-2.6	11.74	-62.8	-13.0	-49.8	
3296.00	-75.9	V	3.0	-1.1	11.74	-65.2	-13.0	-52.2	
4120.00	-75.8	V	3.0	0.6	11.74	-63.5	-13.0	-50.5	
1648.00	-69.8	H	3.0	-7.3	11.74	-65.4	-13.0	-52.4	
2472.00	-70.2	H	3.0	-2.6	11.74	-61.1	-13.0	-48.1	
3296.00	-75.8	H	3.0	-1.1	11.74	-65.1	-13.0	-52.1	
4120.00	-75.9	H	3.0	0.6	11.74	-63.6	-13.0	-50.6	

LTE Band 26 (Part 22)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791963822							
Date:		2025-10-13							
Test Engineer:		33535							
Configuration:		EUT / AC Adapter, Y-Position, FF							
Location:		Chamber 1							
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
10 MHz									
QPSK									
ANT A									
Low Ch, 829MHz									
1658.00	-72.1	V	3.0	-7.2	11.74	-67.6	-13.0	-54.6	
2487.00	-63.4	V	3.0	-2.6	11.74	-54.2	-13.0	-41.2	
3316.00	-75.6	V	3.0	-1.0	11.74	-64.9	-13.0	-51.9	
4145.00	-75.7	V	3.0	0.6	11.74	-63.4	-13.0	-50.4	
1658.00	-71.6	H	3.0	-7.2	11.74	-67.1	-13.0	-54.1	
2487.00	-62.7	H	3.0	-2.6	11.74	-53.6	-13.0	-40.6	
3316.00	-75.6	H	3.0	-1.0	11.74	-64.9	-13.0	-51.9	
4145.00	-75.7	H	3.0	0.6	11.74	-63.4	-13.0	-50.4	
Mid Ch, 836.5MHz									
1673.00	-72.1	H	3.0	-7.1	11.74	-67.5	-13.0	-54.5	
2509.50	-63.2	H	3.0	-2.5	11.74	-54.0	-13.0	-41.0	
3346.00	-75.8	H	3.0	-0.9	11.74	-64.9	-13.0	-51.9	
4182.50	-75.5	H	3.0	0.5	11.74	-63.2	-13.0	-50.2	
High Ch, 844MHz									
1688.00	-72.3	H	3.0	-7.0	11.74	-67.6	-13.0	-54.6	
2532.00	-65.8	H	3.0	-2.5	11.74	-56.5	-13.0	-43.5	
3376.00	-75.5	H	3.0	-0.8	11.74	-64.6	-13.0	-51.6	
4220.00	-75.8	H	3.0	0.6	11.74	-63.4	-13.0	-50.4	
15 MHz									
QPSK									
ANT D									
Low Ch, 831.5MHz									
1663.00	-69.5	H	3.0	-7.2	11.74	-64.9	-13.0	-51.9	
2494.50	-72.3	H	3.0	-2.6	11.74	-63.2	-13.0	-50.2	
3326.00	-75.6	H	3.0	-1.0	11.74	-64.9	-13.0	-51.9	
4157.50	-75.7	H	3.0	0.5	11.74	-63.4	-13.0	-50.4	
Mid Ch, 836.5MHz									
1673.00	-70.3	V	3.0	-7.1	11.74	-65.6	-13.0	-52.6	
2509.50	-71.0	V	3.0	-2.5	11.74	-61.8	-13.0	-48.8	
3346.00	-76.1	V	3.0	-0.9	11.74	-65.2	-13.0	-52.2	
4182.50	-75.7	V	3.0	0.5	11.74	-63.4	-13.0	-50.4	
1673.00	-69.7	H	3.0	-7.1	11.74	-65.1	-13.0	-52.1	
2509.50	-68.0	H	3.0	-2.5	11.74	-58.7	-13.0	-45.7	
3346.00	-76.1	H	3.0	-0.9	11.74	-65.2	-13.0	-52.2	
4182.50	-75.6	H	3.0	0.5	11.74	-63.3	-13.0	-50.3	
High Ch, 841.5MHz									
1683.00	-68.0	H	3.0	-7.0	11.74	-63.3	-13.0	-50.3	
2524.50	-74.7	H	3.0	-2.5	11.74	-65.4	-13.0	-52.4	
3366.00	-75.9	H	3.0	-0.8	11.74	-65.0	-13.0	-52.0	
4207.50	-75.9	H	3.0	0.6	11.74	-63.6	-13.0	-50.6	

NR Band n14 DFT-s OFDM

10 MHz DFT-s-OFDM QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-31 Test Engineer: 27089 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 2 Mode: 5G NR_QPSK NR n14 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	-70.2	V	3.0	-6.7	11.74	-65.2	-40.0	-25.2	
	2379.00	-56.8	V	3.0	-2.1	11.74	-47.2	-13.0	-34.2	
	3172.00	-76.6	V	3.0	0.0	11.74	-64.8	-13.0	-51.8	
	3965.00	-77.1	V	3.0	1.4	11.74	-64.0	-13.0	-51.0	
	1586.00	-68.5	H	3.0	-6.7	11.74	-63.5	-40.0	-23.5	
	2379.00	-54.5	H	3.0	-2.1	11.74	-44.8	-13.0	-31.8	
	3172.00	-76.6	H	3.0	0.0	11.74	-64.8	-13.0	-51.8	
	3965.00	-77.1	H	3.0	1.4	11.74	-64.0	-13.0	-51.0	
10 MHz DFT-s-OFDM QPSK ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-31 Test Engineer: 28775 Configuration: EUT / Z-Position, FF Location: Chamber 2 Mode: 5G NR_QPSK NR n14 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	-72.2	V	3.0	-6.7	11.74	-67.2	-40.0	-27.2	
	2379.00	-63.3	V	3.0	-2.1	11.74	-53.6	-13.0	-40.6	
	3172.00	-76.5	V	3.0	0.0	11.74	-64.7	-13.0	-51.7	
	3965.00	-75.5	V	3.0	1.4	11.74	-62.4	-13.0	-49.4	
	4758.00	-77.5	V	3.0	3.1	11.74	-62.7	-13.0	-49.7	
	1586.00	-73.3	H	3.0	-6.7	11.74	-68.2	-40.0	-28.2	
	2379.00	-62.4	H	3.0	-2.1	11.74	-52.7	-13.0	-39.7	
	3172.00	-76.4	H	3.0	0.0	11.74	-64.6	-13.0	-51.6	
	3965.00	-76.4	H	3.0	1.4	11.74	-63.3	-13.0	-50.3	
	4758.00	-77.4	H	3.0	3.1	11.74	-62.6	-13.0	-49.6	

NR Band n26 DFT-s OFDM (Part 90)

10 MHz DFT-s-OFDM QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-22 Test Engineer: 28775 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 2 Mode: 5G NR_QPSK NR n26(Part 90) 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, 819MHz									
	1638.00	-73.5	V	3.0	-6.5	11.74	-68.3	-13.0	-55.3	
	2457.00	-76.6	V	3.0	-1.8	11.74	-66.7	-13.0	-53.7	
	3276.00	-77.8	V	3.0	-0.1	11.74	-66.2	-13.0	-53.2	
	1638.00	-72.7	H	3.0	-6.5	11.74	-67.5	-13.0	-54.5	
	2457.00	-76.5	H	3.0	-1.8	11.74	-66.6	-13.0	-53.6	
	3276.00	-77.8	H	3.0	-0.1	11.74	-66.2	-13.0	-53.2	
5 MHz DFT-s-OFDM QPSK ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-23 Test Engineer: 28183 Configuration: EUT / AC Adapter, Y-Position, Open Location: Chamber 2 Mode: 5G NR_QPSK NR n26(Part 90) 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	-71.7	V	3.0	-6.5	11.74	-66.5	-13.0	-53.5	
	2449.50	-73.8	V	3.0	-1.8	11.74	-63.8	-13.0	-50.8	
	3266.00	-76.9	V	3.0	-0.1	11.74	-65.3	-13.0	-52.3	
	4082.50	-77.5	V	3.0	1.7	11.74	-64.0	-13.0	-51.0	
	1633.00	-72.5	H	3.0	-6.5	11.74	-67.3	-13.0	-54.3	
	2449.50	-76.0	H	3.0	-1.8	11.74	-66.1	-13.0	-53.1	
	3266.00	-77.0	H	3.0	-0.1	11.74	-65.3	-13.0	-52.3	
	4082.50	-77.6	H	3.0	1.7	11.74	-64.1	-13.0	-51.1	
	Mid Ch, 821.5MHz									
	1643.00	-71.7	V	3.0	-6.5	11.74	-66.4	-13.0	-53.4	
	2464.50	-74.4	V	3.0	-1.8	11.74	-64.4	-13.0	-51.4	
	3286.00	-76.5	V	3.0	-0.1	11.74	-64.9	-13.0	-51.9	
	4107.50	-77.4	V	3.0	1.7	11.74	-63.9	-13.0	-50.9	

NR Band n26 DFT-s OFDM (Straddle)

20 MHz DFT-s-OFDM QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-22 Test Engineer: 28183 Configuration: EUT / AC Adapter, X-Position, FF 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	-73.9	V	3.0	-6.4	11.74	-68.6	-13.0	-55.6	
	2472.00	-79.6	V	3.0	-1.8	11.74	-69.6	-13.0	-56.6	
	3296.00	-81.5	V	3.0	-0.2	11.74	-69.9	-13.0	-56.9	
	1648.00	-73.1	H	3.0	-6.4	11.74	-67.8	-13.0	-54.8	
	2472.00	-78.0	H	3.0	-1.8	11.74	-68.0	-13.0	-55.0	
	3296.00	-79.9	H	3.0	-0.2	11.74	-68.3	-13.0	-55.3	
20 MHz DFT-s-OFDM QPSK ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-23 Test Engineer: 28183 Configuration: EUT / AC Adapter, Y-Position, Open 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									
	1668.00	-71.9	V	3.0	-6.3	11.74	-66.5	-13.0	-53.5	
	2502.00	-73.8	V	3.0	-1.7	11.74	-63.7	-13.0	-50.7	
	3336.00	-76.8	V	3.0	0.0	11.74	-65.1	-13.0	-52.1	
	1668.00	-72.1	H	3.0	-6.3	11.74	-66.6	-13.0	-53.6	
	2502.00	-75.3	H	3.0	-1.7	11.74	-65.2	-13.0	-52.2	
	3336.00	-76.9	H	3.0	0.0	11.74	-65.1	-13.0	-52.1	

NR Band n26 DFT-s OFDM (Part 22)

15 MHz DFT-s-OFDM QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-22 Test Engineer: 28183 Configuration: EUT / AC Adapter, X-Position, FF 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	-71.1	V	3.0	-6.4	11.74	-65.8	-13.0	-52.8	
	2494.50	-76.0	V	3.0	-1.7	11.74	-65.9	-13.0	-52.9	
	3326.00	-76.9	V	3.0	0.0	11.74	-65.2	-13.0	-52.2	
	1663.00	-70.4	H	3.0	-6.4	11.74	-65.0	-13.0	-52.0	
	2494.50	-76.0	H	3.0	-1.7	11.74	-65.9	-13.0	-52.9	
	3326.00	-76.9	H	3.0	0.0	11.74	-65.2	-13.0	-52.2	
	Mid Ch, 836.5MHz									
	1673.00	-70.4	H	3.0	-6.3	11.74	-65.0	-13.0	-52.0	
	2509.50	-76.0	H	3.0	-1.6	11.74	-65.8	-13.0	-52.8	
	3346.00	-76.9	H	3.0	0.1	11.74	-65.1	-13.0	-52.1	
	High Ch, 841.5MHz									
	1683.00	-72.0	H	3.0	-6.3	11.74	-66.6	-13.0	-53.6	
	2524.50	-76.1	H	3.0	-1.6	11.74	-66.0	-13.0	-53.0	
	3366.00	-77.2	H	3.0	0.2	11.74	-65.3	-13.0	-52.3	
15 MHz DFT-s-OFDM QPSK ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791963822 Date: 2025-10-23 Test Engineer: 28183 Configuration: EUT / AC Adapter, Y-Position, Open 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	-70.9	V	3.0	-6.4	11.74	-65.5	-13.0	-52.5	
	2494.50	-71.5	V	3.0	-1.7	11.74	-61.4	-13.0	-48.4	
	3326.00	-76.8	V	3.0	0.0	11.74	-65.1	-13.0	-52.1	
	4157.50	-76.7	V	3.0	1.7	11.74	-63.2	-13.0	-50.2	
	4989.00	-77.7	V	3.0	3.2	11.74	-62.8	-13.0	-49.8	
	Mid Ch, 836.5MHz									
	1673.00	-69.5	V	3.0	-6.3	11.74	-64.1	-13.0	-51.1	
	2509.50	-72.0	V	3.0	-1.6	11.74	-61.9	-13.0	-48.9	
	3346.00	-77.0	V	3.0	0.1	11.74	-65.2	-13.0	-52.2	
	4182.50	-76.9	V	3.0	1.7	11.74	-63.4	-13.0	-50.4	
	5019.00	-77.8	V	3.0	3.2	11.74	-62.8	-13.0	-49.8	
	High Ch, 841.5MHz									
	1683.00	-69.9	V	3.0	-6.3	11.74	-64.4	-13.0	-51.4	
	2524.50	-70.8	V	3.0	-1.6	11.74	-60.6	-13.0	-47.6	
	3366.00	-76.8	V	3.0	0.2	11.74	-64.9	-13.0	-51.9	
	4207.50	-76.8	V	3.0	1.7	11.74	-63.3	-13.0	-50.3	
	5049.00	-78.0	V	3.0	3.3	11.74	-63.0	-13.0	-50.0	
	1683.00	-70.1	H	3.0	-6.3	11.74	-64.7	-13.0	-51.7	
	2524.50	-73.9	H	3.0	-1.6	11.74	-63.8	-13.0	-50.8	
	3366.00	-76.9	H	3.0	0.2	11.74	-65.0	-13.0	-52.0	
	4207.50	-77.2	H	3.0	1.7	11.74	-63.8	-13.0	-50.8	
	5049.00	-78.0	H	3.0	3.3	11.74	-63.0	-13.0	-50.0	

END OF REPORT

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