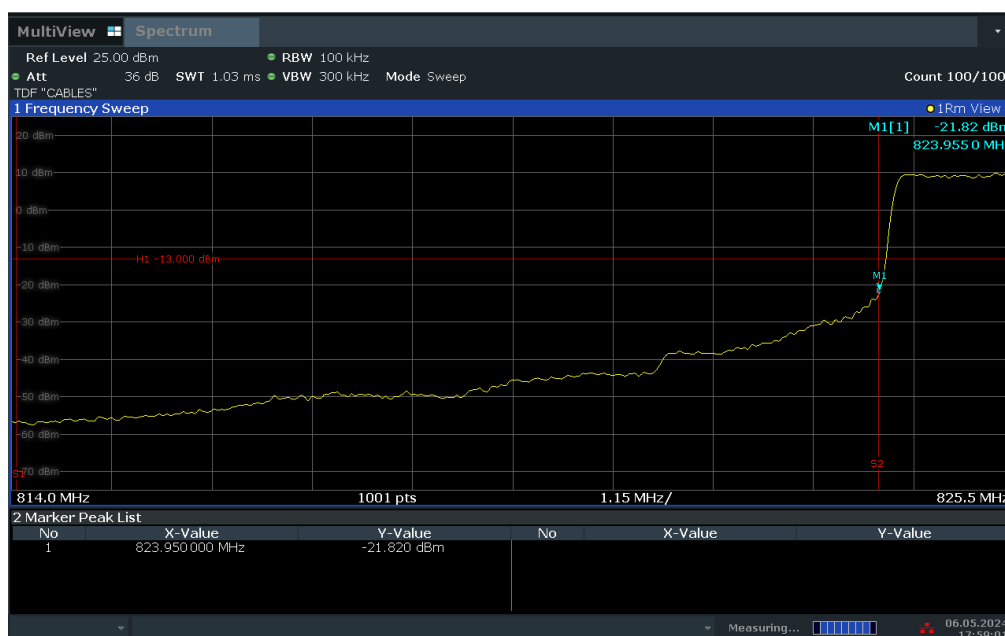


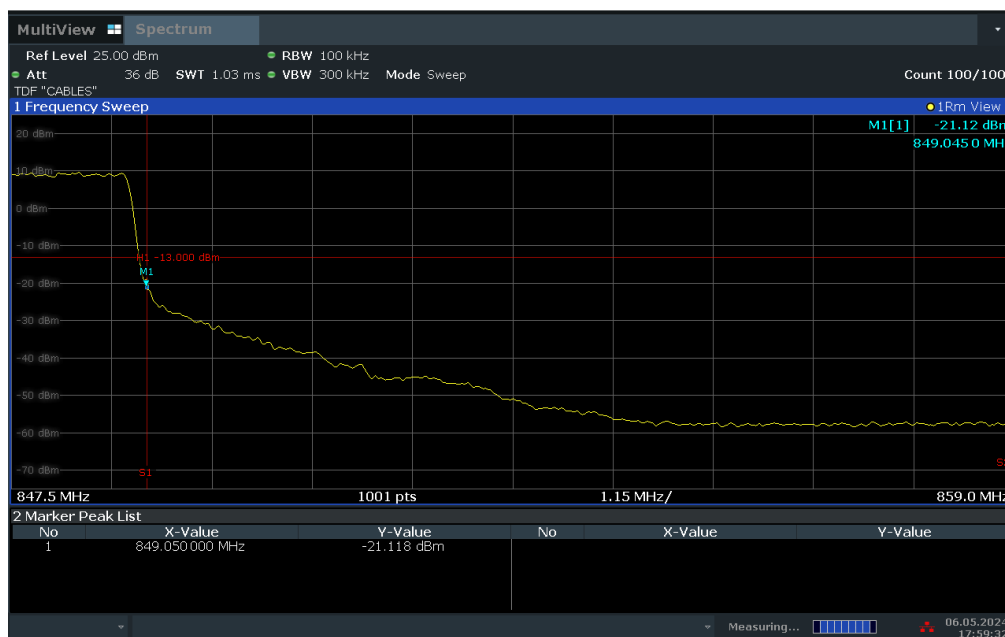
Peak



17:59:01 06.05.2024


Plot 7-88. Lower BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)

Peak



17:59:33 06.05.2024

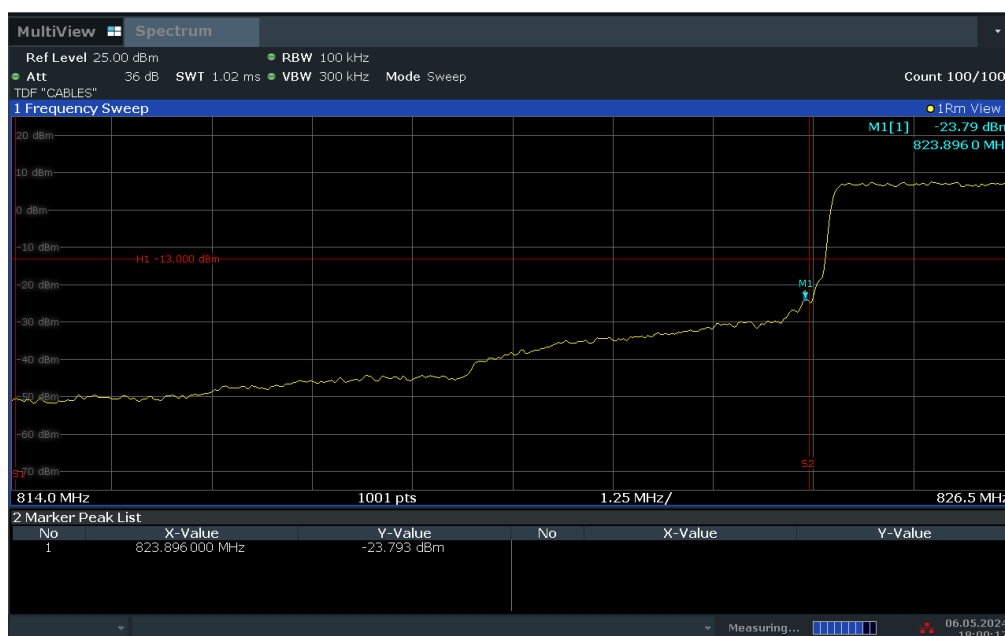
Plot 7-89. Upper BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)

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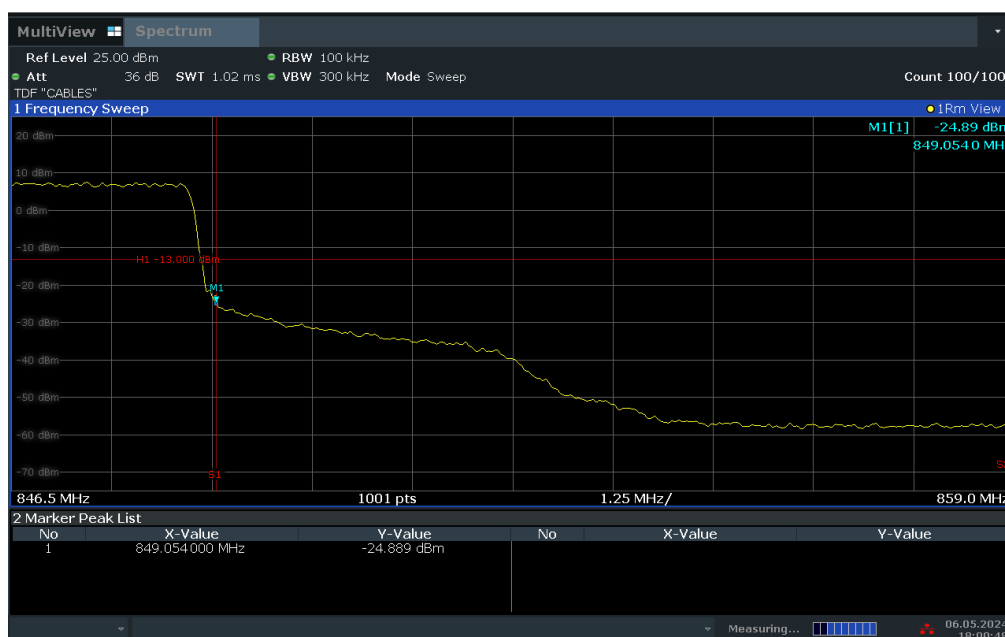
Peak



18:00:17 06.05.2024


Plot 7-90. Lower BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)

Peak



18:00:49 06.05.2024

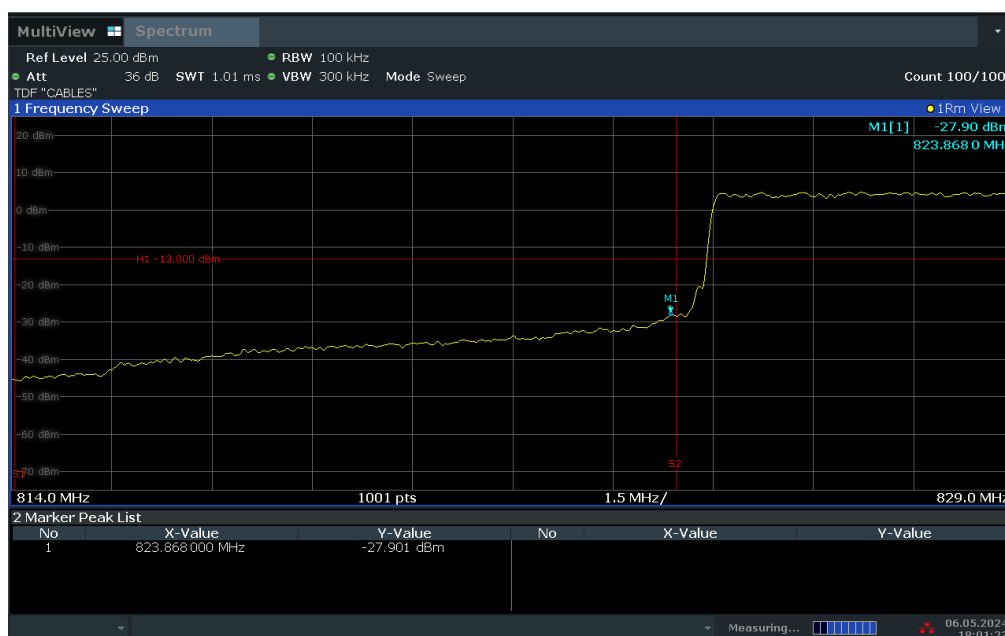
Plot 7-91. Upper BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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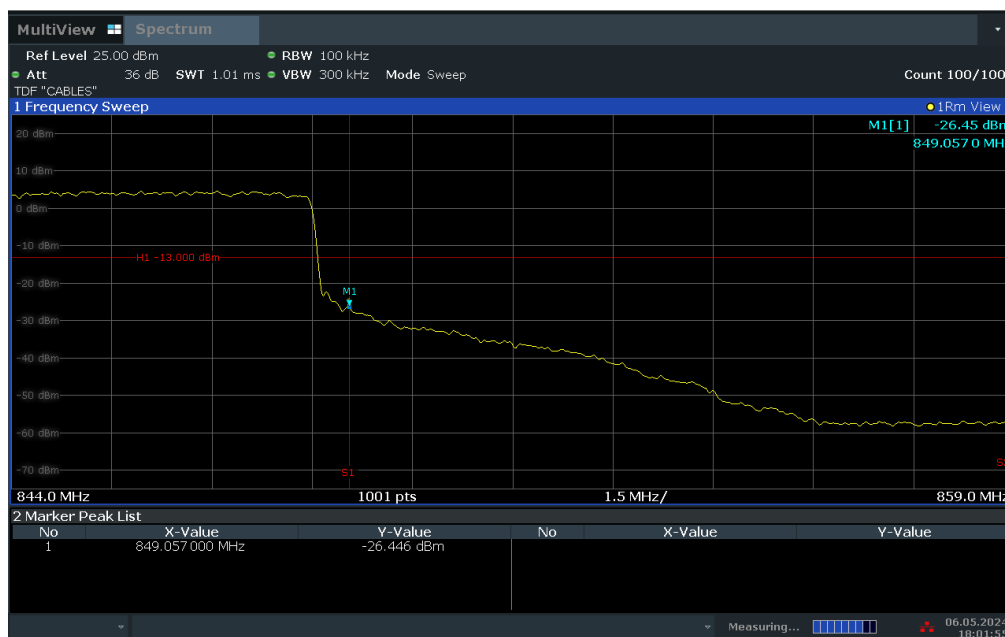
Peak



18:01:23 06.05.2024


Plot 7-92. Lower BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)

Peak



18:01:56 06.05.2024

Plot 7-93. Upper BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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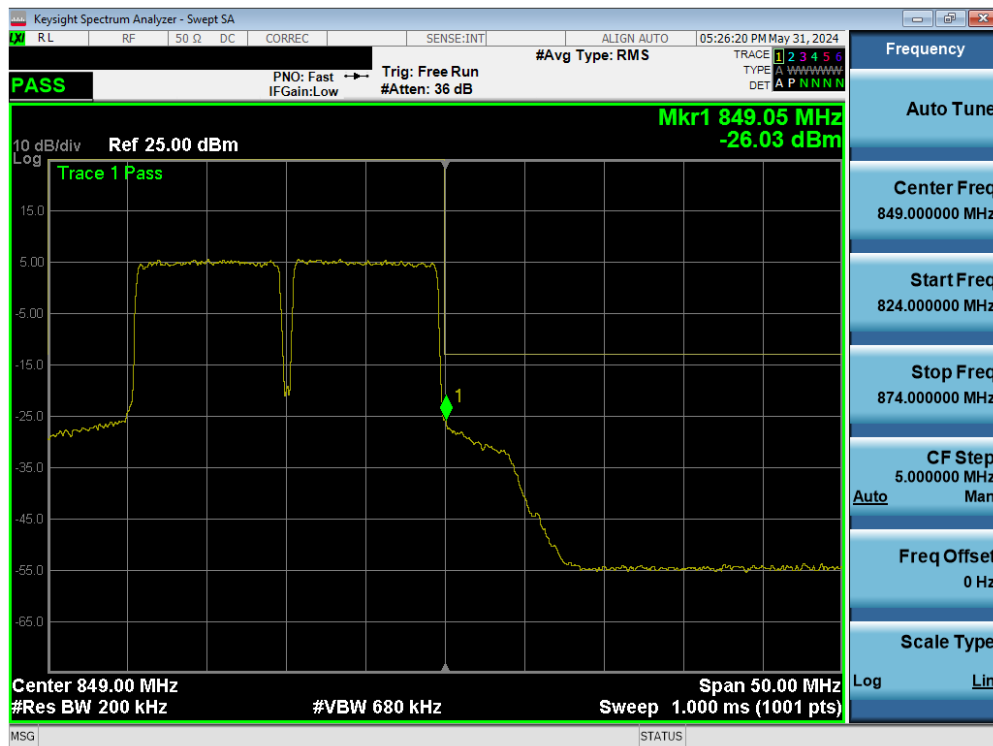
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ULCA - LTE Band 5



Plot 7-94. Lower BE Plot (ULCA – LTE Band 5 – (10 + 10)MHz QPSK – Full RB Configuration)



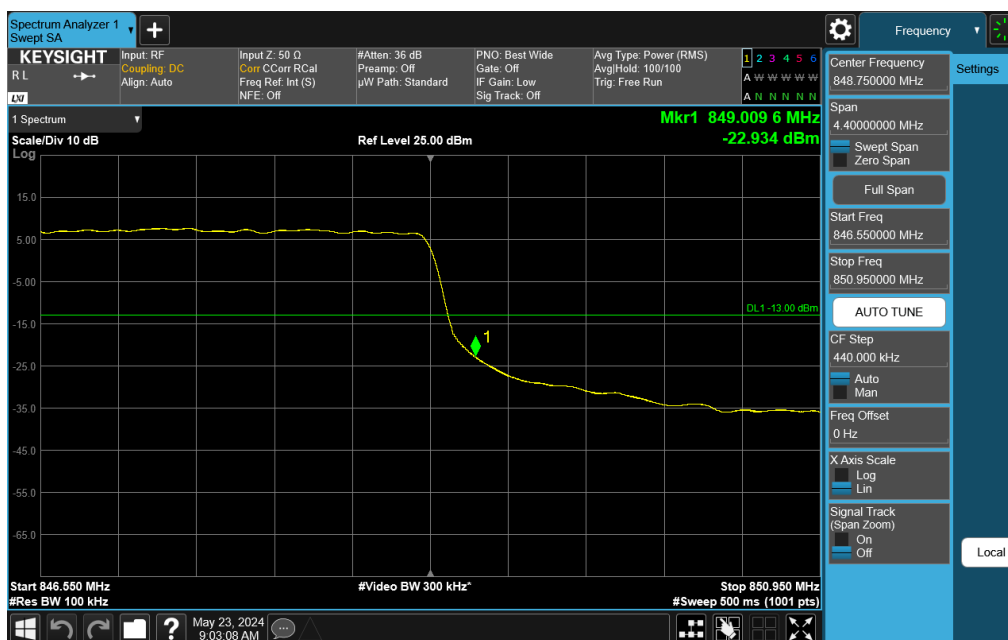
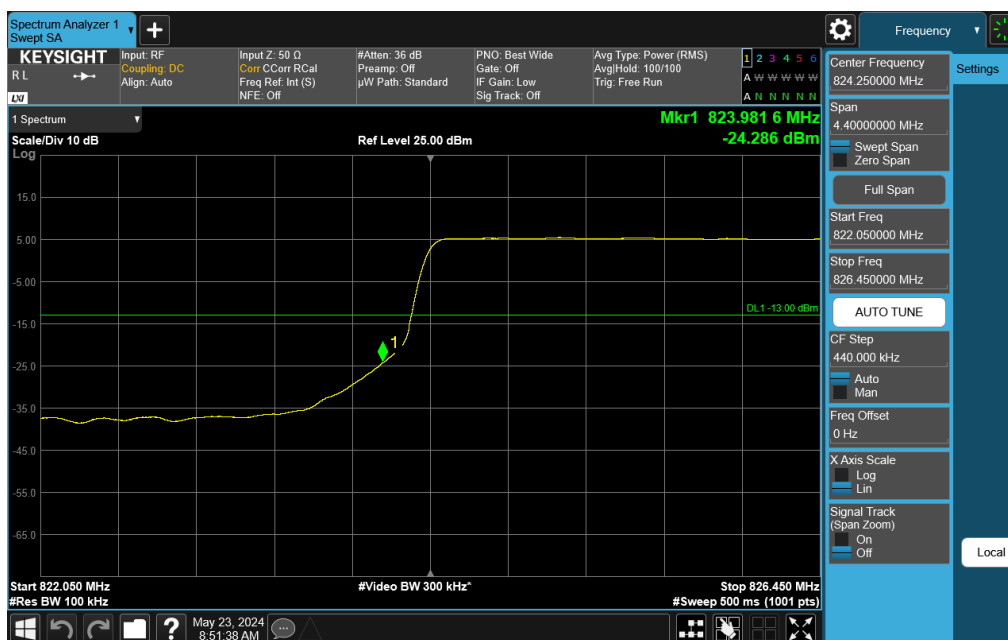
Plot 7-95. Upper BE Plot (ULCA – LTE Band 5 - (10 + 10)MHz QPSK – Full RB Configuration)


FCC ID: BCGA2995		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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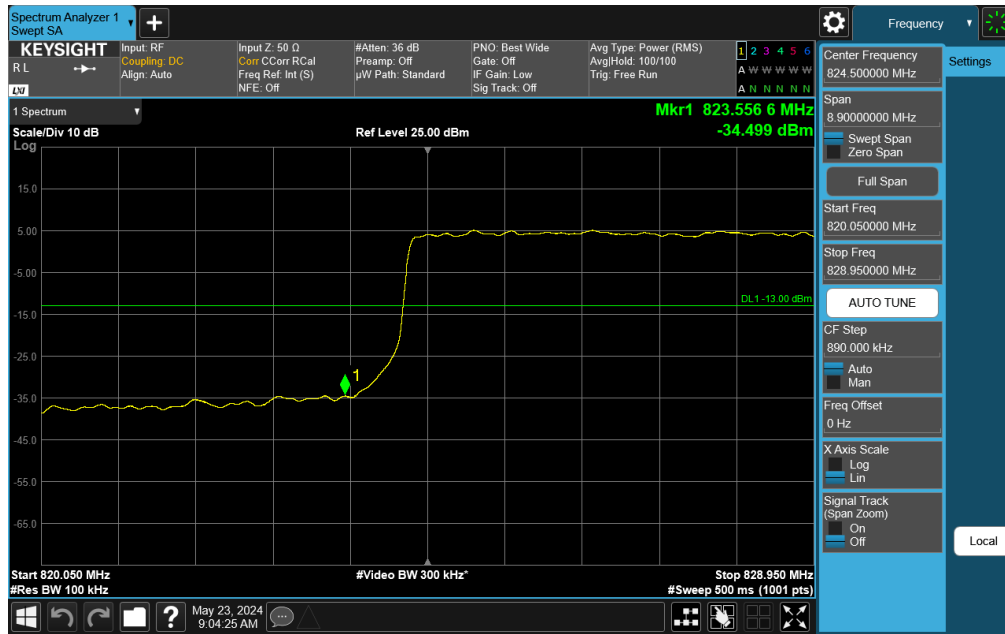
NR Band n26



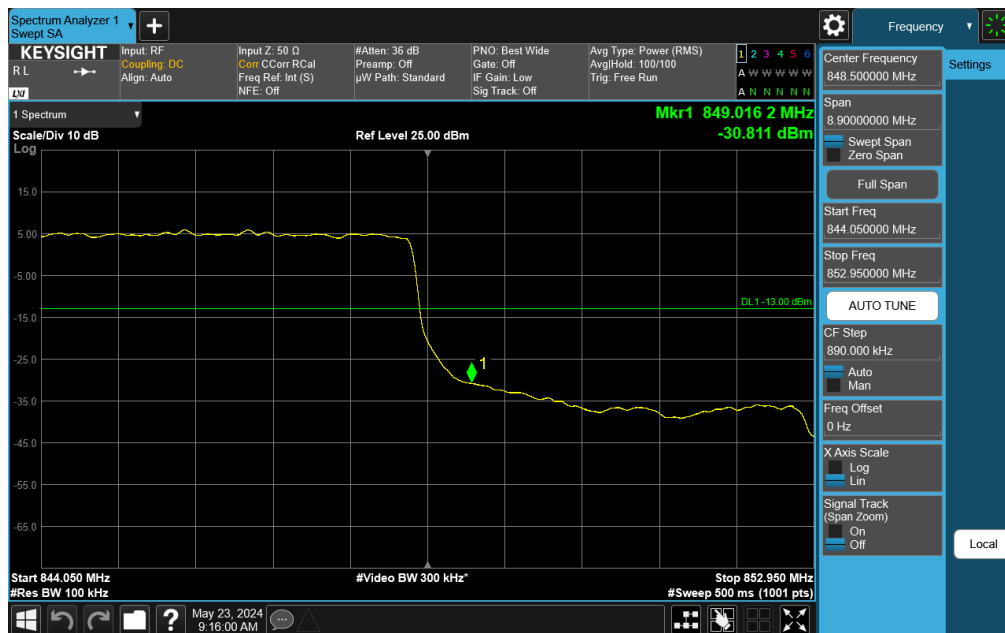
FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-98. Lower BE Plot (NR Band n26 DFT-s-OFDM QPSK – 10.0MHz - Full RB)

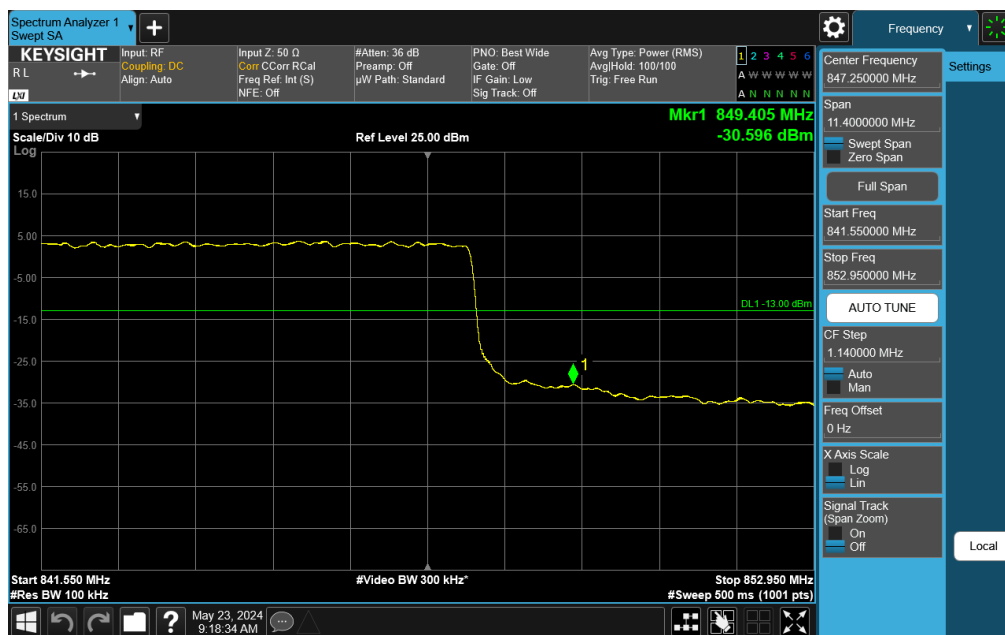
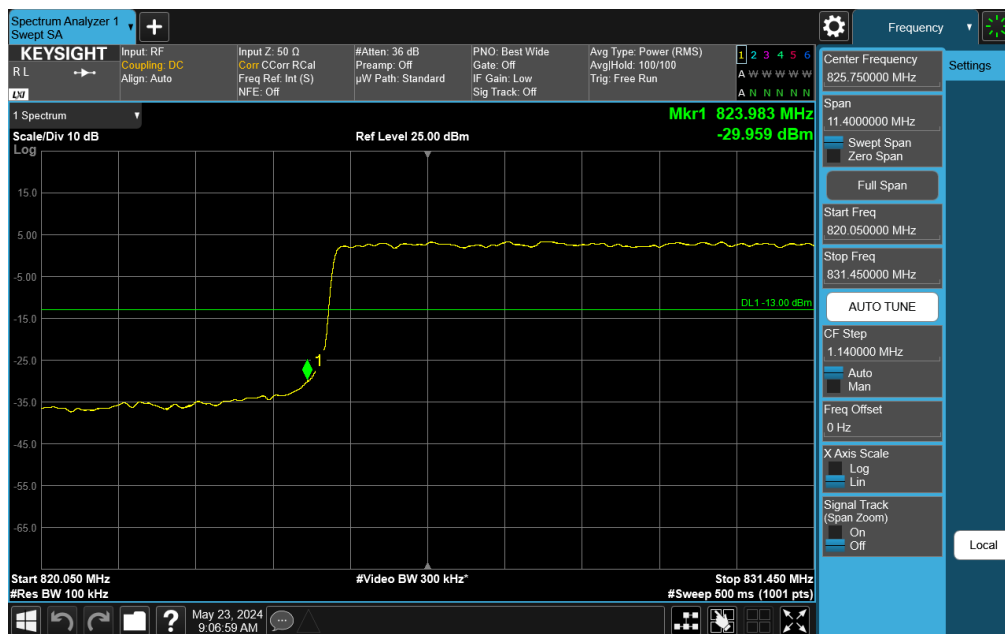



Plot 7-99. Upper BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 10.0MHz - Full RB)

FCC ID: BCGA2995		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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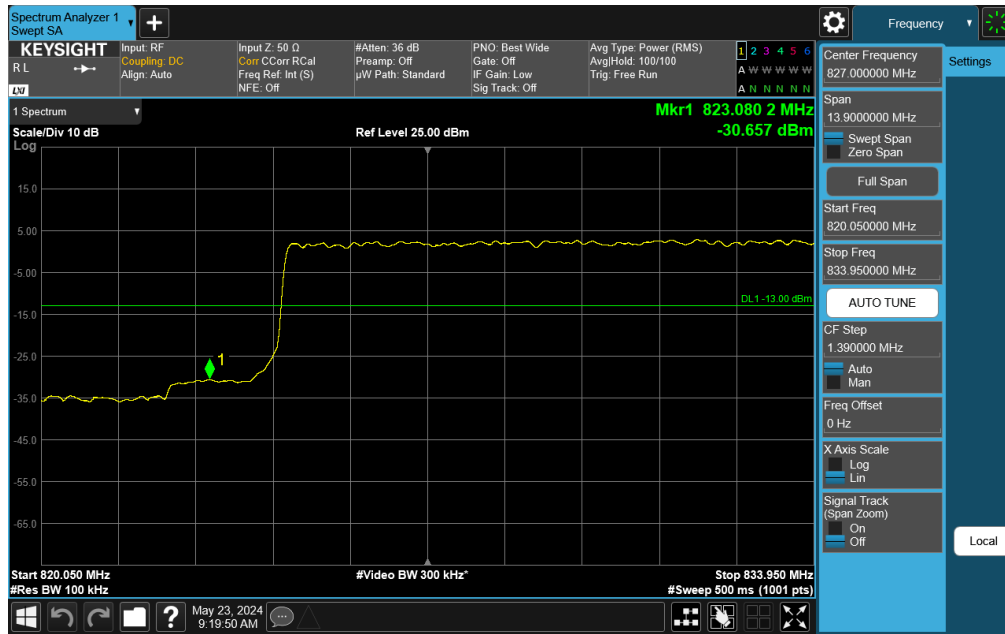
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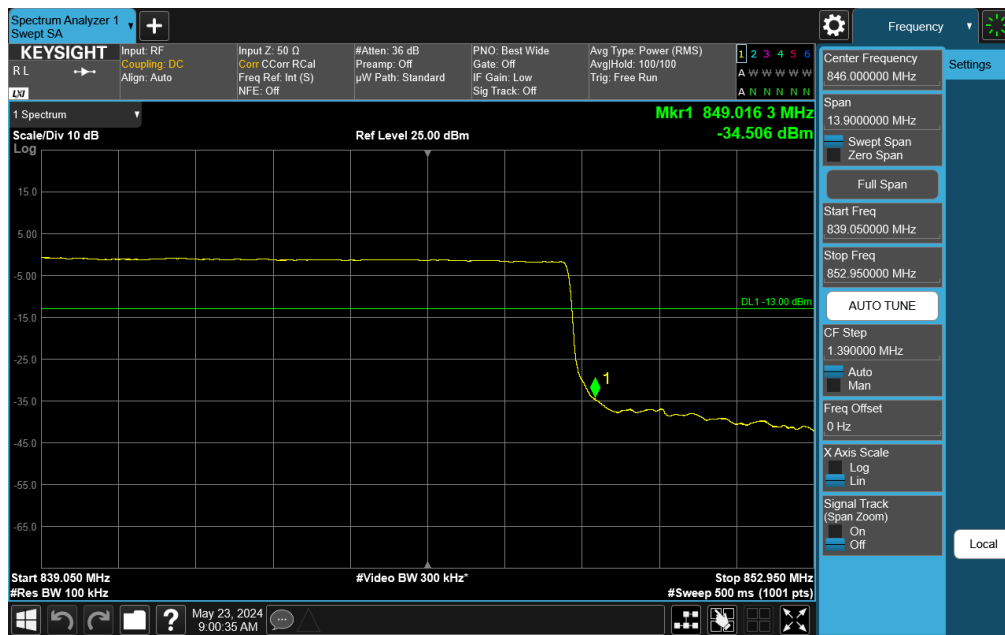
FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-102. Lower BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 20.0MHz - Full RB)



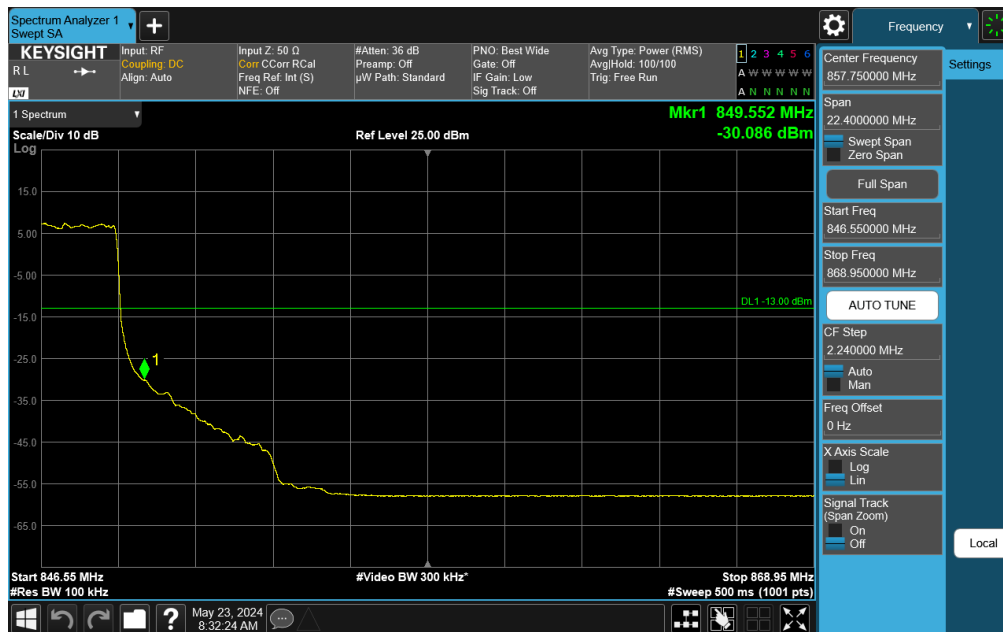
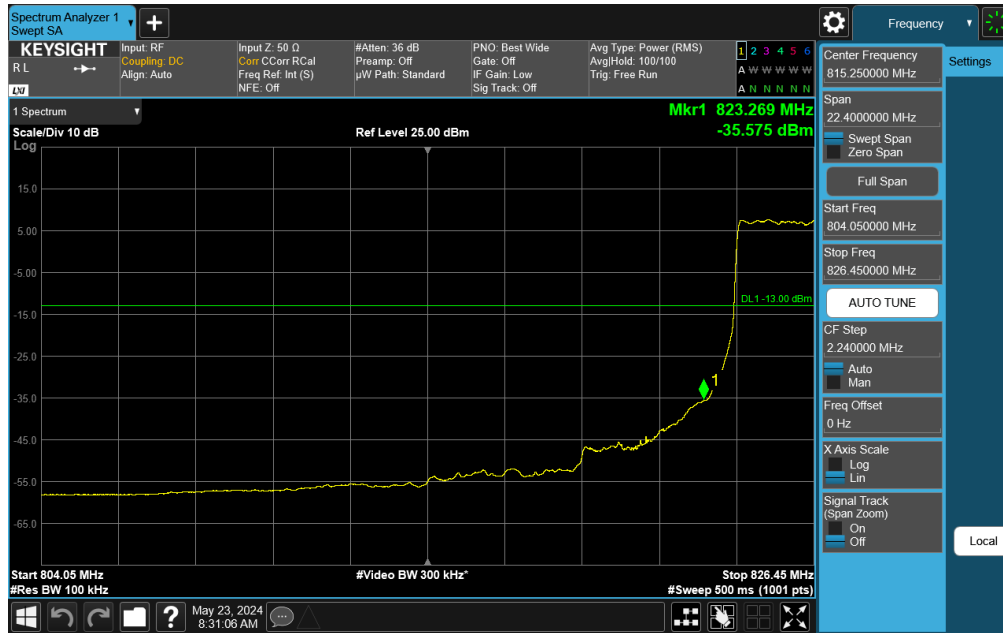
Plot 7-103. Upper BE Plot (NR Band n26 CP - OFDM QPSK – 20.0MHz - Full RB)


FCC ID: BCGA2995		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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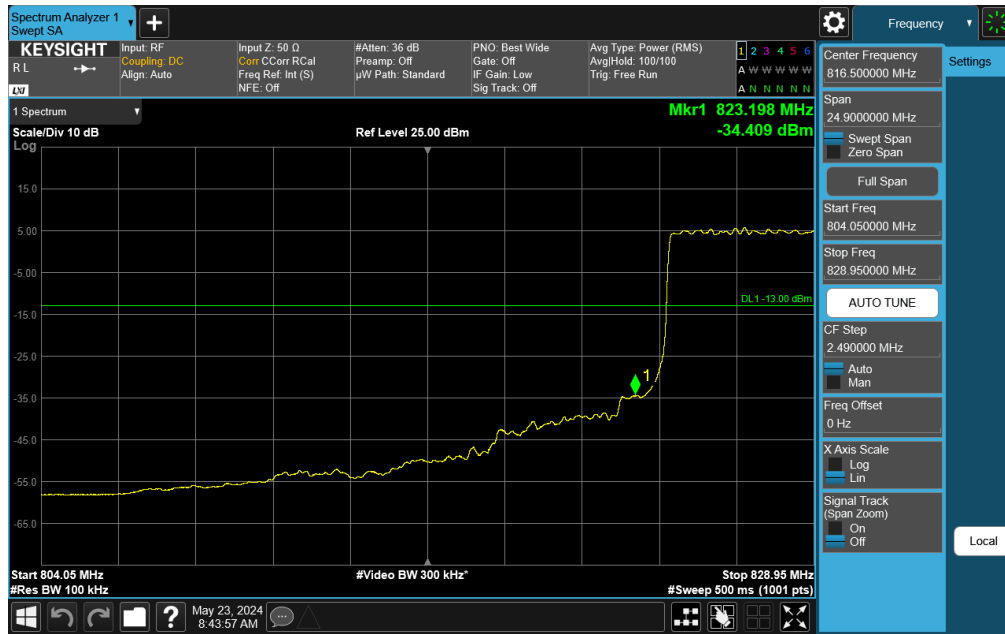
NR Band n5



FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-106. Lower BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 10.0MHz - Full RB)

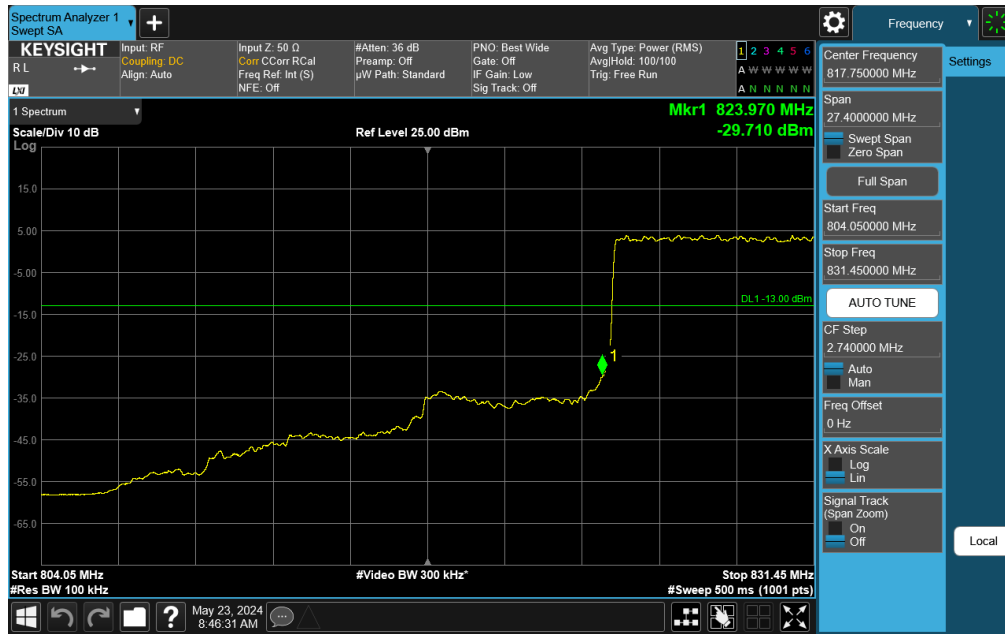


Plot 7-107. Upper BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 10.0MHz - Full RB)

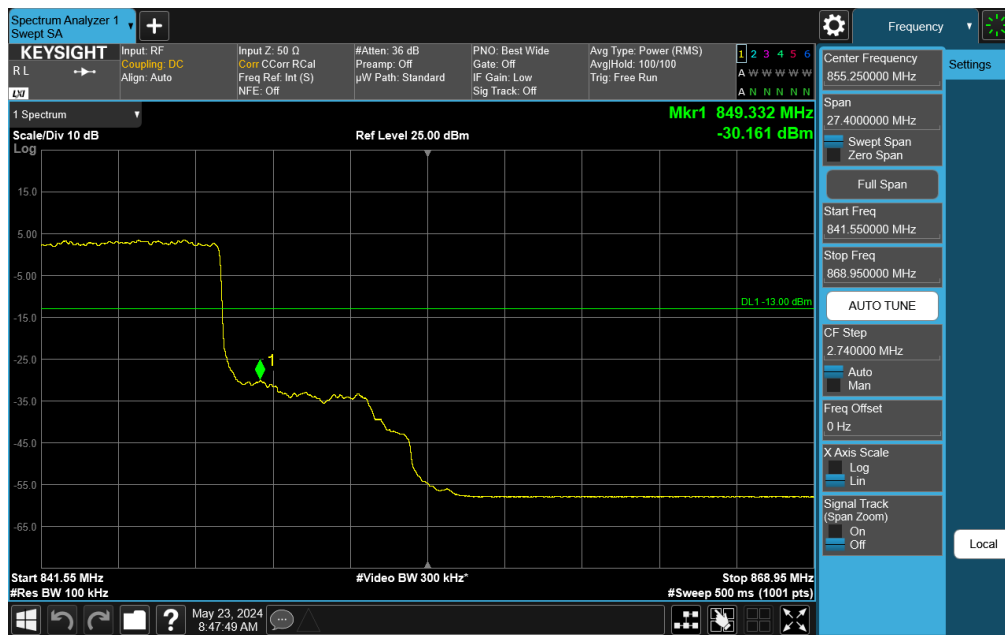
FCC ID: BCGA2995		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-108. Lower BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

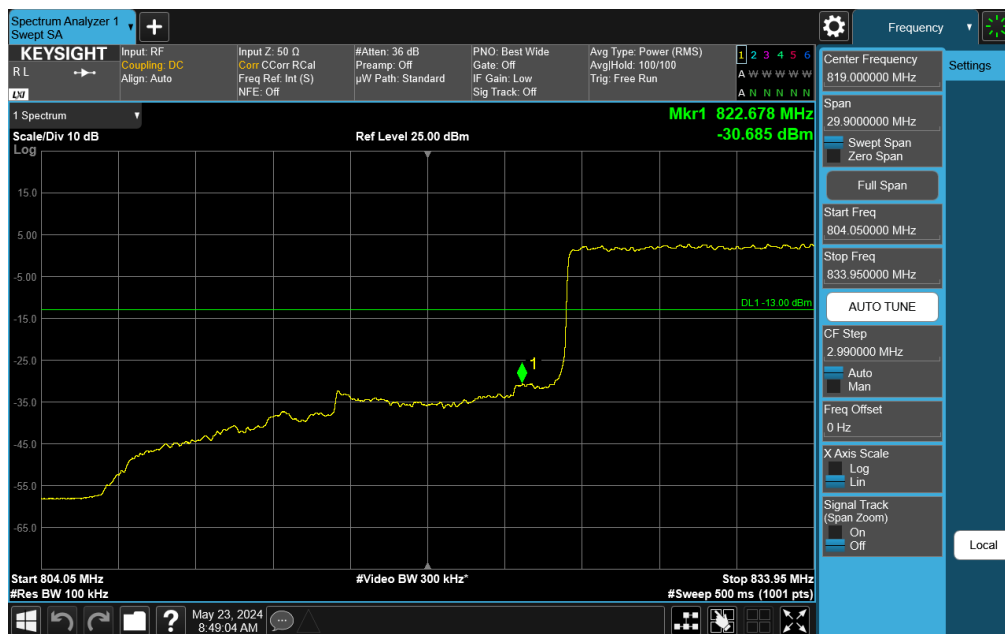



Plot 7-109. Upper BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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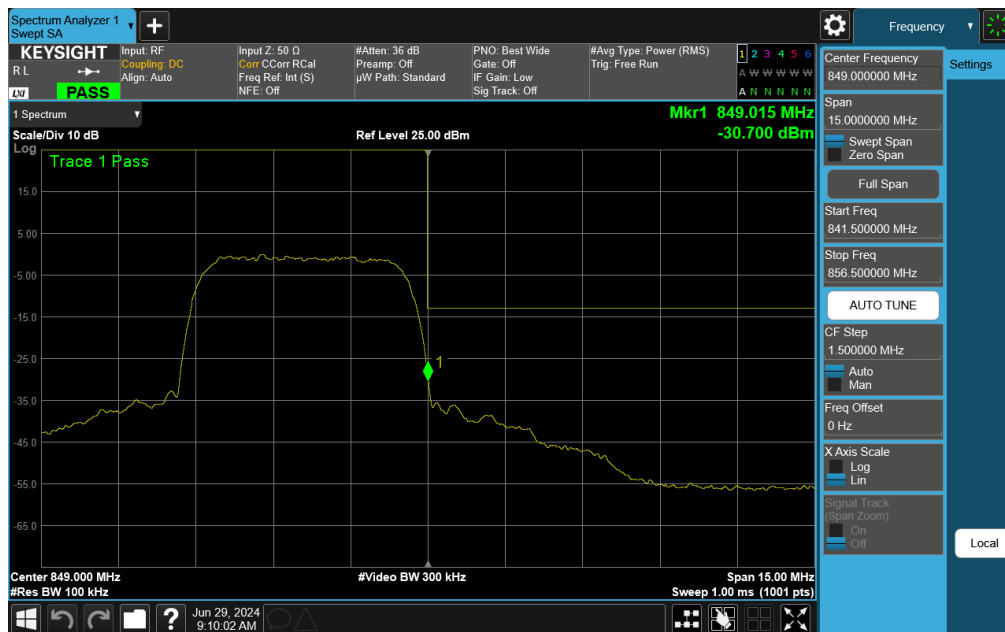
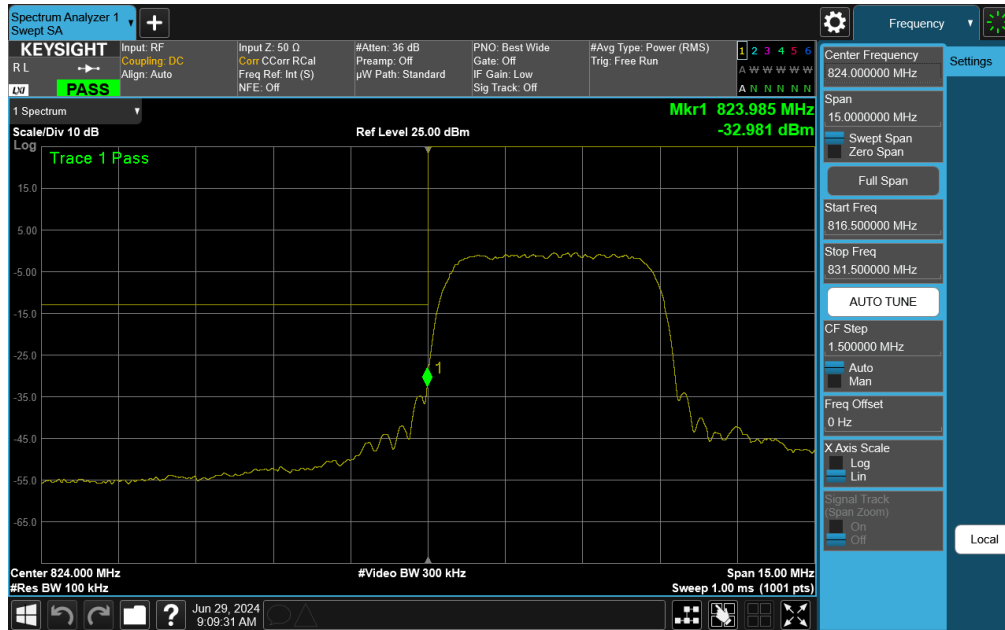



FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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WCDMA Cell



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7.5 Radiated Power (ERP)

§22.913(a)(5)

Test Overview

Effective Radiated Power (ERP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$ERP = P_{Meas} - LC + GT$$

Where:

ERP = Effective Radiated Power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm)

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

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

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

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

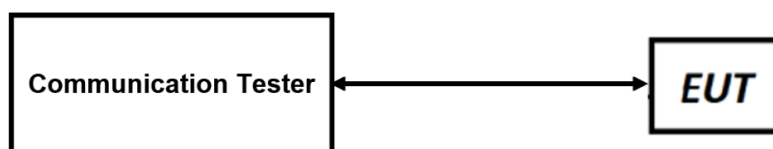


Figure 7-7. LTE Test Instrument & Measurement Setup

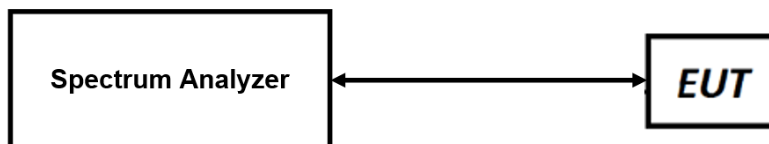




Figure 7-8. FR1 Test Instrument & Measurement Setup

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Test Notes:

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. Uplink carrier aggregation for LTE B5 is only supported in this EUT while operating in Power Class 3.
5. Conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
6. The Ant. Gains (GT) are listed in dBi.

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7.5.1 Antenna 4 – ERP

LTE Band 26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-1.80	1 / 0	25.04	21.09	0.129	38.45	-17.36
		836.5	-1.80	1 / 0	25.18	21.23	0.133	38.45	-17.22
		848.3	-1.80	1 / 5	25.13	21.18	0.131	38.45	-17.27
	16-QAM	824.7	-1.80	1 / 0	24.57	20.62	0.115	38.45	-17.83
	64-QAM	848.3	-1.80	1 / 0	23.45	19.50	0.089	38.45	-18.95
	256-QAM	836.5	-1.80	1 / 0	20.33	16.38	0.043	38.45	-22.07
3 MHz	QPSK	825.5	-1.80	1 / 0	25.08	21.13	0.130	38.45	-17.32
		836.5	-1.80	1 / 0	25.23	21.28	0.134	38.45	-17.17
		847.5	-1.80	1 / 0	25.04	21.09	0.129	38.45	-17.36
	16-QAM	847.5	-1.80	1 / 0	24.62	20.67	0.117	38.45	-17.78
	64-QAM	825.5	-1.80	1 / 0	23.58	19.63	0.092	38.45	-18.82
	256-QAM	836.5	-1.80	1 / 0	20.47	16.52	0.045	38.45	-21.93
5 MHz	QPSK	826.5	-1.80	1 / 0	25.40	21.45	0.140	38.45	-17.00
		836.5	-1.80	1 / 0	25.40	21.45	0.140	38.45	-17.00
		846.5	-1.80	1 / 0	25.22	21.27	0.134	38.45	-17.18
	16-QAM	826.5	-1.80	1 / 0	24.59	20.64	0.116	38.45	-17.81
	64-QAM	836.5	-1.80	1 / 0	23.64	19.69	0.093	38.45	-18.76
	256-QAM	826.5	-1.80	1 / 0	20.41	16.46	0.044	38.45	-21.99
10 MHz	QPSK	829.0	-1.80	1 / 25	25.03	21.08	0.128	38.45	-17.37
		836.5	-1.80	1 / 0	25.22	21.27	0.134	38.45	-17.18
		844.0	-1.80	1 / 25	25.15	21.20	0.132	38.45	-17.25
	16-QAM	844.0	-1.80	1 / 25	24.60	20.65	0.116	38.45	-17.80
	64-QAM	829.0	-1.80	1 / 0	23.48	19.53	0.090	38.45	-18.92
	256-QAM	844.0	-1.80	1 / 0	20.53	16.58	0.045	38.45	-21.87

Table 7-2. Antenna 4 ERP Data (LTE Band 26)

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LTE Band 5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	829.0	-1.80	1 / 0	25.11	21.16	0.131	38.45	-17.29
		836.5	-1.80	1 / 0	25.31	21.36	0.137	38.45	-17.09
		844.0	-1.80	1 / 0	25.18	21.23	0.133	38.45	-17.22
	16-QAM	829.0	-1.80	1 / 0	24.63	20.68	0.117	38.45	-17.77
	64-QAM	829.0	-1.80	1 / 0	23.50	19.55	0.090	38.45	-18.90
	256-QAM	829.0	-1.80	1 / 0	20.35	16.40	0.044	38.45	-22.05
3 MHz	QPSK	829.0	-1.80	1 / 0	25.16	21.21	0.132	38.45	-17.24
		836.5	-1.80	1 / 0	25.26	21.31	0.135	38.45	-17.14
		844.0	-1.80	1 / 0	25.00	21.05	0.127	38.45	-17.40
	16-QAM	829.0	-1.80	1 / 0	24.62	20.67	0.117	38.45	-17.78
	64-QAM	829.0	-1.80	1 / 14	23.51	19.56	0.090	38.45	-18.89
	256-QAM	829.0	-1.80	1 / 0	20.45	16.50	0.045	38.45	-21.95
5 MHz	QPSK	829.0	-1.80	1 / 0	25.40	21.45	0.140	38.45	-17.00
		836.5	-1.80	1 / 0	25.38	21.43	0.139	38.45	-17.02
		844.0	-1.80	1 / 0	25.15	21.20	0.132	38.45	-17.25
	16-QAM	829.0	-1.80	1 / 0	24.73	20.78	0.120	38.45	-17.67
	64-QAM	829.0	-1.80	1 / 0	23.52	19.57	0.091	38.45	-18.88
	256-QAM	829.0	-1.80	1 / 0	20.41	16.46	0.044	38.45	-21.99
10 MHz	QPSK	829.0	-1.80	1 / 25	25.10	21.15	0.130	38.45	-17.30
		836.5	-1.80	1 / 25	25.28	21.33	0.136	38.45	-17.12
		844.0	-1.80	1 / 25	25.13	21.18	0.131	38.45	-17.27
	16-QAM	836.5	-1.80	1 / 25	24.68	20.73	0.118	38.45	-17.72
	64-QAM	836.5	-1.80	1 / 49	23.47	19.52	0.090	38.45	-18.93
	256-QAM	836.5	-1.80	1 / 0	20.42	16.47	0.044	38.45	-21.98

Table 7-3. Antenna 4 ERP Data (LTE Band 5)


FCC ID: BCGA2995		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB							UL RB Offset
Max	LTE B5	10MHz + 10MHz	QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	25.30	-1.80	21.35	0.136	38.45	-17.10
				20475	831.5	1	49		20574	841.4	1	0	25.32	-1.80	21.37	0.137	38.45	-17.08
				20600	844.0	1	0		20501	834.1	1	49	25.35	-1.80	21.40	0.138	38.45	-17.05
			QPSK	20600	844	50	0	QPSK	20501	834.1	50	0	23.41	-1.80	19.46	0.088	38.45	-18.99
			16-QAM	20600	844	50	0	16-QAM	20501	834.1	50	0	22.43	-1.80	18.48	0.070	38.45	-19.97
			64-QAM	20600	844	50	0	64-QAM	20501	834.1	50	0	22.31	-1.80	18.36	0.069	38.45	-20.09
			256-QAM	20600	844	50	0	256-QAM	20501	834.1	50	0	20.39	-1.80	16.44	0.044	38.45	-22.01

Table 7-4. Antenna 4 ERP Data (ULCA LTE Band 5)


FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-07-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 83 of 113

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NR Band n26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	829.0	-1.80	1 / 1	24.46	20.51	0.112	38.45	-17.94
		836.5	-1.80	1 / 12	25.34	21.39	0.138	38.45	-17.06
		844.0	-1.80	1 / 1	25.15	21.20	0.132	38.45	-17.25
	QPSK	829.0	-1.80	1 / 12	24.44	20.49	0.112	38.45	-17.96
		836.5	-1.80	1 / 12	25.14	21.19	0.132	38.45	-17.26
		844.0	-1.80	1 / 23	25.40	21.45	0.140	38.45	-17.00
	16-QAM	844.0	-1.80	1 / 1	24.32	20.37	0.109	38.45	-18.08
	64-QAM	844.0	-1.80	1 / 12	23.40	19.45	0.088	38.45	-19.00
	256-QAM	836.5	-1.80	1 / 1	20.26	16.31	0.043	38.45	-22.14
10 MHz	$\pi/2$ BPSK	829.0	-1.80	1 / 25	25.14	21.19	0.132	38.45	-17.26
		836.5	-1.80	1 / 1	25.40	21.45	0.140	38.45	-17.00
		844.0	-1.80	1 / 50	25.30	21.35	0.136	38.45	-17.10
	QPSK	829.0	-1.80	1 / 50	25.23	21.28	0.134	38.45	-17.17
		836.5	-1.80	1 / 1	25.40	21.45	0.140	38.45	-17.00
		844.0	-1.80	1 / 50	25.10	21.15	0.130	38.45	-17.30
	16-QAM	836.5	-1.80	1 / 50	24.37	20.42	0.110	38.45	-18.03
	64-QAM	829.0	-1.80	1 / 1	23.44	19.49	0.089	38.45	-18.96
	256-QAM	844.0	-1.80	1 / 1	20.48	16.53	0.045	38.45	-21.92
15 MHz	$\pi/2$ BPSK	831.5	-1.80	1 / 77	25.35	21.40	0.138	38.45	-17.05
		836.5	-1.80	1 / 1	25.39	21.44	0.139	38.45	-17.01
		841.5	-1.80	1 / 77	25.29	21.34	0.136	38.45	-17.11
	QPSK	831.5	-1.80	1 / 77	25.18	21.23	0.133	38.45	-17.22
		836.5	-1.80	1 / 77	25.40	21.45	0.140	38.45	-17.00
		841.5	-1.80	1 / 77	25.30	21.35	0.136	38.45	-17.10
	16-QAM	831.5	-1.80	1 / 77	24.39	20.44	0.111	38.45	-18.01
	64-QAM	836.5	-1.80	1 / 36	23.23	19.28	0.085	38.45	-19.17
	256-QAM	836.5	-1.80	1 / 1	20.48	16.53	0.045	38.45	-21.92
20 MHz	$\pi/2$ BPSK	834.0	-1.80	1 / 104	25.39	21.44	0.139	38.45	-17.01
		836.5	-1.80	1 / 104	25.15	21.20	0.132	38.45	-17.25
		839.0	-1.80	1 / 1	25.27	21.32	0.136	38.45	-17.13
	QPSK	834.0	-1.80	1 / 104	25.14	21.19	0.132	38.45	-17.26
		836.5	-1.80	1 / 1	25.40	21.45	0.140	38.45	-17.00
		839.0	-1.80	1 / 50	25.33	21.38	0.137	38.45	-17.07
	16-QAM	839.0	-1.80	1 / 1	24.35	20.40	0.110	38.45	-18.05
	64-QAM	834.0	-1.80	1 / 1	23.36	19.41	0.087	38.45	-19.04
	256-QAM	834.0	-1.80	1 / 1	20.46	16.51	0.045	38.45	-21.94

Table 7-5. Antenna 4 ERP Data (NR Band n26)


FCC ID: BCGA2995		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	829.0	-1.80	1 / 1	25.34	21.39	0.138	38.45	-17.06
		836.5	-1.80	1 / 1	25.40	21.45	0.140	38.45	-17.00
		844.0	-1.80	1 / 12	25.27	21.32	0.136	38.45	-17.13
	QPSK	829.0	-1.80	1 / 23	25.20	21.25	0.133	38.45	-17.20
		836.5	-1.80	1 / 1	25.32	21.37	0.137	38.45	-17.08
		844.0	-1.80	1 / 1	25.28	21.33	0.136	38.45	-17.12
	16-QAM	844.0	-1.80	1 / 23	24.42	20.47	0.111	38.45	-17.98
10 MHz	$\pi/2$ BPSK	829.0	-1.80	1 / 50	25.27	21.32	0.136	38.45	-17.13
		836.5	-1.80	1 / 50	25.36	21.41	0.138	38.45	-17.04
		844.0	-1.80	1 / 25	25.37	21.42	0.139	38.45	-17.03
	QPSK	829.0	-1.80	1 / 1	25.33	21.38	0.137	38.45	-17.07
		836.5	-1.80	1 / 1	25.40	21.45	0.140	38.45	-17.00
		844.0	-1.80	1 / 1	25.20	21.25	0.133	38.45	-17.20
	16-QAM	829.0	-1.80	1 / 1	24.43	20.48	0.112	38.45	-17.97
15 MHz	$\pi/2$ BPSK	831.5	-1.80	1 / 36	25.11	21.16	0.131	38.45	-17.29
		836.5	-1.80	1 / 77	25.19	21.24	0.133	38.45	-17.21
		841.5	-1.80	1 / 1	25.40	21.45	0.140	38.45	-17.00
	QPSK	831.5	-1.80	1 / 1	25.32	21.37	0.137	38.45	-17.08
		836.5	-1.80	1 / 1	25.28	21.33	0.136	38.45	-17.12
		841.5	-1.80	1 / 1	25.18	21.23	0.133	38.45	-17.22
	16-QAM	836.5	-1.80	1 / 77	24.24	20.29	0.107	38.45	-18.16
20 MHz	$\pi/2$ BPSK	834.0	-1.80	1 / 104	25.38	21.43	0.139	38.45	-17.02
		836.5	-1.80	1 / 50	25.36	21.41	0.138	38.45	-17.04
		839.0	-1.80	1 / 104	25.40	21.45	0.140	38.45	-17.00
	QPSK	834.0	-1.80	1 / 104	25.02	21.07	0.128	38.45	-17.38
		836.5	-1.80	1 / 50	25.36	21.41	0.138	38.45	-17.04
		839.0	-1.80	1 / 1	25.40	21.45	0.140	38.45	-17.00
	16-QAM	834.0	-1.80	1 / 1	24.41	20.46	0.111	38.45	-17.99
	64-QAM	834.0	-1.80	1 / 50	23.39	19.44	0.088	38.45	-19.01
	256-QAM	839.0	-1.80	1 / 1	20.44	16.49	0.045	38.45	-21.96

Table 7-6. Antenna 4 ERP Data (NR Band n5)


FCC ID: BCGA2995		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	25.19	-1.80	21.24	0.133	38.45	-17.21
836.60	WCDMA850	25.13	-1.80	21.18	0.131	38.45	-17.27
846.60	WCDMA850	25.37	-1.80	21.42	0.139	38.45	-17.03

Table 7-7. Antenna 4 ERP Data (WCDMA Cell)

FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-07-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 86 of 113


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7.5.2 Antenna 2 – ERP

LTE Band 26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.40	1 / 5	24.57	20.02	0.100	38.45	-18.43
		836.5	-2.40	1 / 3	24.70	20.15	0.104	38.45	-18.30
		848.3	-2.40	1 / 3	24.70	20.15	0.104	38.45	-18.30
	16-QAM	836.5	-2.40	1 / 5	23.68	19.13	0.082	38.45	-19.32
	64-QAM	848.3	-2.40	1 / 5	22.57	18.02	0.063	38.45	-20.43
	256-QAM	824.7	-2.40	1 / 3	19.66	15.11	0.032	38.45	-23.34
3 MHz	QPSK	825.5	-2.40	1 / 14	24.63	20.08	0.102	38.45	-18.37
		836.5	-2.40	1 / 7	24.70	20.15	0.104	38.45	-18.30
		847.5	-2.40	1 / 0	24.68	20.13	0.103	38.45	-18.32
	16-QAM	825.5	-2.40	1 / 0	23.69	19.14	0.082	38.45	-19.31
	64-QAM	836.5	-2.40	1 / 14	22.62	18.07	0.064	38.45	-20.38
	256-QAM	836.5	-2.40	1 / 14	19.77	15.22	0.033	38.45	-23.23
5 MHz	QPSK	826.5	-2.40	1 / 24	24.40	19.85	0.097	38.45	-18.60
		836.5	-2.40	1 / 24	24.38	19.83	0.096	38.45	-18.62
		846.5	-2.40	1 / 0	24.61	20.06	0.101	38.45	-18.39
	16-QAM	826.5	-2.40	1 / 0	23.66	19.11	0.081	38.45	-19.34
	64-QAM	826.5	-2.40	1 / 12	22.70	18.15	0.065	38.45	-20.30
	256-QAM	836.5	-2.40	1 / 0	19.75	15.20	0.033	38.45	-23.25
10 MHz	QPSK	829.0	-2.40	1 / 49	24.34	19.79	0.095	38.45	-18.66
		836.5	-2.40	1 / 25	24.58	20.03	0.101	38.45	-18.42
		844.0	-2.40	1 / 0	24.69	20.14	0.103	38.45	-18.31
	16-QAM	844.0	-2.40	1 / 25	23.68	19.13	0.082	38.45	-19.32
	64-QAM	844.0	-2.40	1 / 0	22.70	18.15	0.065	38.45	-20.30
	256-QAM	829.0	-2.40	1 / 25	19.80	15.25	0.033	38.45	-23.20

Table 7-8. Antenna 2 ERP Data (LTE Band 26)

FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	829.0	-2.40	1 / 3	24.53	19.98	0.100	38.45	-18.47
		836.5	-2.40	1 / 0	24.51	19.96	0.099	38.45	-18.49
		844.0	-2.40	1 / 0	24.64	20.09	0.102	38.45	-18.36
	16-QAM	829.0	-2.40	1 / 3	23.70	19.15	0.082	38.45	-19.30
	64-QAM	844.0	-2.40	1 / 0	22.66	18.11	0.065	38.45	-20.34
	256-QAM	836.5	-2.40	1 / 5	19.76	15.21	0.033	38.45	-23.24
3 MHz	QPSK	829.0	-2.40	1 / 14	24.61	20.06	0.101	38.45	-18.39
		836.5	-2.40	1 / 14	24.53	19.98	0.100	38.45	-18.47
		844.0	-2.40	1 / 0	24.68	20.13	0.103	38.45	-18.32
	16-QAM	836.5	-2.40	1 / 7	23.68	19.13	0.082	38.45	-19.32
	64-QAM	844.0	-2.40	1 / 0	22.74	18.19	0.066	38.45	-20.26
	256-QAM	836.5	-2.40	1 / 14	19.73	15.18	0.033	38.45	-23.27
5 MHz	QPSK	829.0	-2.40	1 / 12	24.70	20.15	0.104	38.45	-18.30
		836.5	-2.40	1 / 24	24.67	20.12	0.103	38.45	-18.33
		844.0	-2.40	1 / 0	24.51	19.96	0.099	38.45	-18.49
	16-QAM	829.0	-2.40	1 / 0	23.67	19.12	0.082	38.45	-19.33
	64-QAM	844.0	-2.40	1 / 24	22.70	18.15	0.065	38.45	-20.30
	256-QAM	844.0	-2.40	1 / 24	19.78	15.23	0.033	38.45	-23.22
10 MHz	QPSK	829.0	-2.40	1 / 0	24.70	20.15	0.104	38.45	-18.30
		836.5	-2.40	1 / 25	24.67	20.12	0.103	38.45	-18.33
		844.0	-2.40	1 / 49	24.45	19.90	0.098	38.45	-18.55
	16-QAM	836.5	-2.40	1 / 49	23.71	19.16	0.082	38.45	-19.29
	64-QAM	829.0	-2.40	1 / 49	22.69	18.14	0.065	38.45	-20.31
	256-QAM	836.5	-2.40	1 / 0	19.78	15.23	0.033	38.45	-23.22

Table 7-9. Antenna 2 ERP Data (LTE Band 5)


FCC ID: BCGA2995		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2405200018-07-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 88 of 113

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ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B5	10MHz + 10MHz	QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	24.56	-2.40	20.01	0.100	38.45	-18.44
				20475	831.5	1	49		20574	841.4	1	0	24.63	-2.40	20.08	0.102	38.45	-18.37
				20600	844.0	1	0		20501	834.1	1	49	24.54	-2.40	19.99	0.100	38.45	-18.46
			QPSK	20475	831.5	50	0	QPSK	20574	841.4	50	0	22.72	-2.40	18.17	0.066	38.45	-20.28
			16-QAM	20475	831.5	50	0	16-QAM	20574	841.4	50	0	21.75	-2.40	17.20	0.052	38.45	-21.25
			64-QAM	20475	831.5	50	0	64-QAM	20574	841.4	50	0	21.71	-2.40	17.16	0.052	38.45	-21.29
			256-QAM	20475	831.5	50	0	256-QAM	20574	841.4	50	0	19.7	-2.40	15.15	0.033	38.45	-23.30

Table 7-10. Antenna 2 ERP Data (ULCA LTE Band 5)


FCC ID: BCGA2995	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-07-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 89 of 113

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NR Band n26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	829.0	-2.40	1 / 23	23.48	18.93	0.078	38.45	-19.52
		836.5	-2.40	1 / 1	24.69	20.14	0.103	38.45	-18.31
		844.0	-2.40	1 / 1	24.70	20.15	0.104	38.45	-18.30
	QPSK	829.0	-2.40	1 / 23	23.45	18.90	0.078	38.45	-19.55
		836.5	-2.40	1 / 23	24.68	20.13	0.103	38.45	-18.32
		844.0	-2.40	1 / 23	24.64	20.09	0.102	38.45	-18.36
	16-QAM	844.0	-2.40	1 / 12	23.69	19.14	0.082	38.45	-19.31
	64-QAM	844.0	-2.40	1 / 1	22.53	17.98	0.063	38.45	-20.47
	256-QAM	844.0	-2.40	1 / 1	19.73	15.18	0.033	38.45	-23.27
10 MHz	$\pi/2$ BPSK	829.0	-2.40	1 / 1	24.51	19.96	0.099	38.45	-18.49
		836.5	-2.40	1 / 1	24.55	20.00	0.100	38.45	-18.45
		844.0	-2.40	1 / 1	24.70	20.15	0.104	38.45	-18.30
	QPSK	829.0	-2.40	1 / 50	24.53	19.98	0.100	38.45	-18.47
		836.5	-2.40	1 / 50	24.39	19.84	0.096	38.45	-18.61
		844.0	-2.40	1 / 25	24.55	20.00	0.100	38.45	-18.45
	16-QAM	836.5	-2.40	1 / 1	23.70	19.15	0.082	38.45	-19.30
	64-QAM	829.0	-2.40	1 / 25	22.68	18.13	0.065	38.45	-20.32
	256-QAM	844.0	-2.40	1 / 1	19.73	15.18	0.033	38.45	-23.27
15 MHz	$\pi/2$ BPSK	831.5	-2.40	1 / 36	24.39	19.84	0.096	38.45	-18.61
		836.5	-2.40	1 / 77	24.70	20.15	0.104	38.45	-18.30
		841.5	-2.40	1 / 1	24.65	20.10	0.102	38.45	-18.35
	QPSK	831.5	-2.40	1 / 36	24.49	19.94	0.099	38.45	-18.51
		836.5	-2.40	1 / 36	24.48	19.93	0.098	38.45	-18.52
		841.5	-2.40	1 / 1	24.69	20.14	0.103	38.45	-18.31
	16-QAM	841.5	-2.40	1 / 77	23.69	19.14	0.082	38.45	-19.31
	64-QAM	841.5	-2.40	1 / 36	22.67	18.12	0.065	38.45	-20.33
	256-QAM	831.5	-2.40	1 / 36	19.77	15.22	0.033	38.45	-23.23
20 MHz	$\pi/2$ BPSK	834.0	-2.40	1 / 1	24.45	19.90	0.098	38.45	-18.55
		836.5	-2.40	1 / 50	24.68	20.13	0.103	38.45	-18.32
		839.0	-2.40	1 / 50	24.70	20.15	0.104	38.45	-18.30
	QPSK	834.0	-2.40	1 / 50	24.42	19.87	0.097	38.45	-18.58
		836.5	-2.40	1 / 1	24.65	20.10	0.102	38.45	-18.35
		839.0	-2.40	1 / 104	24.65	20.10	0.102	38.45	-18.35
	16-QAM	839.0	-2.40	1 / 1	23.59	19.04	0.080	38.45	-19.41
	64-QAM	839.0	-2.40	1 / 1	22.70	18.15	0.065	38.45	-20.30
	256-QAM	839.0	-2.40	1 / 1	19.74	15.19	0.033	38.45	-23.26

Table 7-11. Antenna 2 ERP Data (NR Band n26)

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NR Band n5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	829.0	-2.40	1 / 23	24.59	20.04	0.101	38.45	-18.41
		836.5	-2.40	1 / 23	24.61	20.06	0.101	38.45	-18.39
		844.0	-2.40	1 / 23	24.66	20.11	0.103	38.45	-18.34
	QPSK	829.0	-2.40	1 / 12	24.70	20.15	0.104	38.45	-18.30
		836.5	-2.40	1 / 12	24.63	20.08	0.102	38.45	-18.37
		844.0	-2.40	1 / 23	24.48	19.93	0.098	38.45	-18.52
	16-QAM	836.5	-2.40	1 / 23	23.69	19.14	0.082	38.45	-19.31
	64-QAM	836.5	-2.40	1 / 12	22.64	18.09	0.064	38.45	-20.36
	256-QAM	844.0	-2.40	1 / 1	19.81	15.26	0.034	38.45	-23.19
10 MHz	$\pi/2$ BPSK	829.0	-2.40	1 / 1	24.69	20.14	0.103	38.45	-18.31
		836.5	-2.40	1 / 1	24.70	20.15	0.104	38.45	-18.30
		844.0	-2.40	1 / 25	24.68	20.13	0.103	38.45	-18.32
	QPSK	829.0	-2.40	1 / 50	24.47	19.92	0.098	38.45	-18.53
		836.5	-2.40	1 / 1	24.70	20.15	0.104	38.45	-18.30
		844.0	-2.40	1 / 25	24.60	20.05	0.101	38.45	-18.40
	16-QAM	844.0	-2.40	1 / 50	23.66	19.11	0.081	38.45	-19.34
	64-QAM	829.0	-2.40	1 / 1	22.58	18.03	0.064	38.45	-20.42
	256-QAM	829.0	-2.40	1 / 50	19.71	15.16	0.033	38.45	-23.29
15 MHz	$\pi/2$ BPSK	831.5	-2.40	1 / 77	24.58	20.03	0.101	38.45	-18.42
		836.5	-2.40	1 / 36	24.52	19.97	0.099	38.45	-18.48
		841.5	-2.40	1 / 77	24.69	20.14	0.103	38.45	-18.31
	QPSK	831.5	-2.40	1 / 1	24.64	20.09	0.102	38.45	-18.36
		836.5	-2.40	1 / 77	24.70	20.15	0.104	38.45	-18.30
		841.5	-2.40	1 / 1	24.35	19.80	0.095	38.45	-18.65
	16-QAM	836.5	-2.40	1 / 36	23.64	19.09	0.081	38.45	-19.36
	64-QAM	831.5	-2.40	1 / 36	22.68	18.13	0.065	38.45	-20.32
	256-QAM	841.5	-2.40	1 / 1	19.79	15.24	0.033	38.45	-23.21
20 MHz	$\pi/2$ BPSK	834.0	-2.40	1 / 1	24.53	19.98	0.100	38.45	-18.47
		836.5	-2.40	1 / 1	24.63	20.08	0.102	38.45	-18.37
		839.0	-2.40	1 / 1	24.70	20.15	0.104	38.45	-18.30
	QPSK	834.0	-2.40	1 / 50	24.49	19.94	0.099	38.45	-18.51
		836.5	-2.40	1 / 104	24.70	20.15	0.104	38.45	-18.30
		839.0	-2.40	1 / 104	24.61	20.06	0.101	38.45	-18.39
	16-QAM	836.5	-2.40	1 / 104	23.68	19.13	0.082	38.45	-19.32
	64-QAM	836.5	-2.40	1 / 104	22.70	18.15	0.065	38.45	-20.30
	256-QAM	834.0	-2.40	1 / 1	19.77	15.22	0.033	38.45	-23.23

Table 7-12. Antenna 2 ERP Data (NR Band n5)


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WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	24.58	-2.40	20.03	0.101	38.45	-18.42
836.60	WCDMA850	24.55	-2.40	20.00	0.100	38.45	-18.45
846.60	WCDMA850	24.67	-2.40	20.12	0.103	38.45	-18.33

Table 7-13. Antenna 2 ERP Data (WCDMA Cell)

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7.6 Radiated Spurious Emissions

§2.1053, 22.917(a)

Test Overview


Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

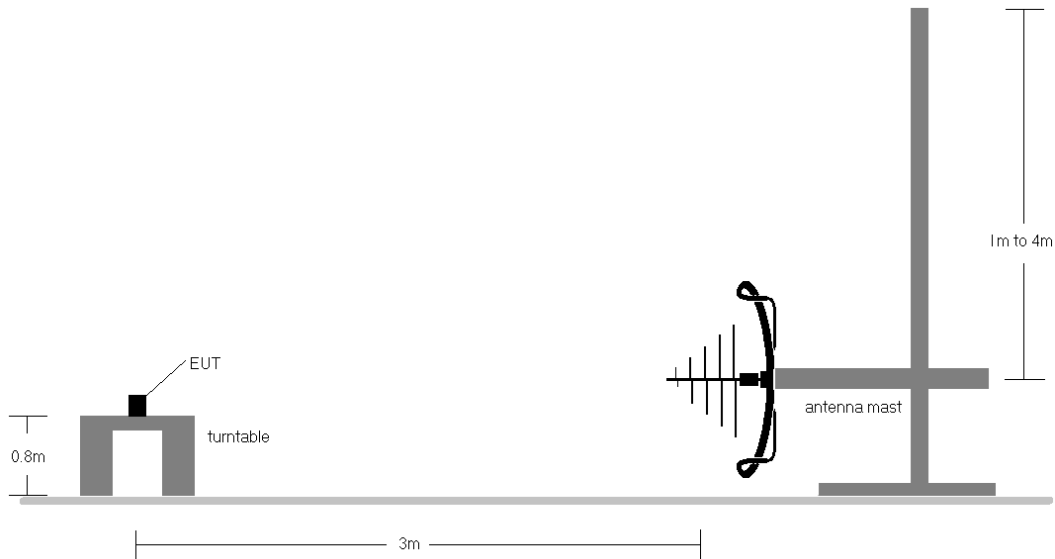


Figure 7-9. Test Instrument & Measurement Setup < 1GHz

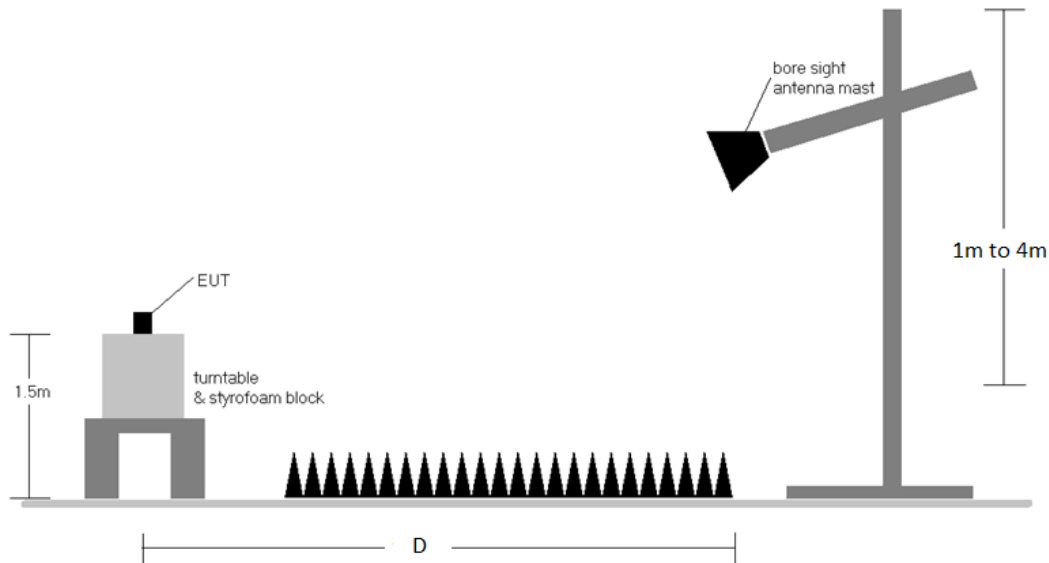




Figure 7-10. Test Instrument & Measurement Setup >1 GHz

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Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
9. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.
10. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.
11. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.

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7.6.1 Antenna 4 – Radiated Spurious Emission Measurements

LTE Band 26/5

Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	H	197	212	-75.69	-1.82	29.49	-65.77	-13.00	-52.77
2487.0	H	-	-	-77.99	1.94	30.94	-64.31	-13.00	-51.31
3316.0	H	-	-	-78.20	1.96	30.76	-64.50	-13.00	-51.50
4145.0	H	-	-	-78.93	3.79	31.85	-63.40	-13.00	-50.40

Table 7-14. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 24


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	V	104	250	-74.94	-1.84	30.21	-65.04	-13.00	-52.04
2509.5	V	-	-	-78.34	2.27	30.94	-64.32	-13.00	-51.32
3346.0	V	-	-	-78.23	2.27	31.04	-64.21	-13.00	-51.21
4182.5	V	-	-	-79.10	3.87	31.77	-63.48	-13.00	-50.48

Table 7-15. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	V	117	255	-69.53	-1.79	35.67	-59.58	-13.00	-46.58
2532.0	V	-	-	-77.95	2.32	31.37	-63.89	-13.00	-50.89
3376.0	V	-	-	-79.21	3.84	31.64	-63.62	-13.00	-50.62
4220.0	V	-	-	-79.66	5.52	32.87	-62.39	-13.00	-49.39

Table 7-16. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – High Channel)

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ULCA LTE Band 5

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
SCC RB / Offset:	1 / 0


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	258	269	-73.14	-1.79	32.07	-63.19	-13.00	-50.19
2502.0	H	317	217	-71.81	2.16	37.35	-57.91	-13.00	-44.91
3336.0	H	-	-	-79.05	4.11	32.06	-63.20	-13.00	-50.20
4170.0	H	-	-	-79.47	5.44	32.96	-62.29	-13.00	-49.29
5004.0	H	-	-	-80.35	7.34	33.98	-61.27	-13.00	-48.27

Table 7-17. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49

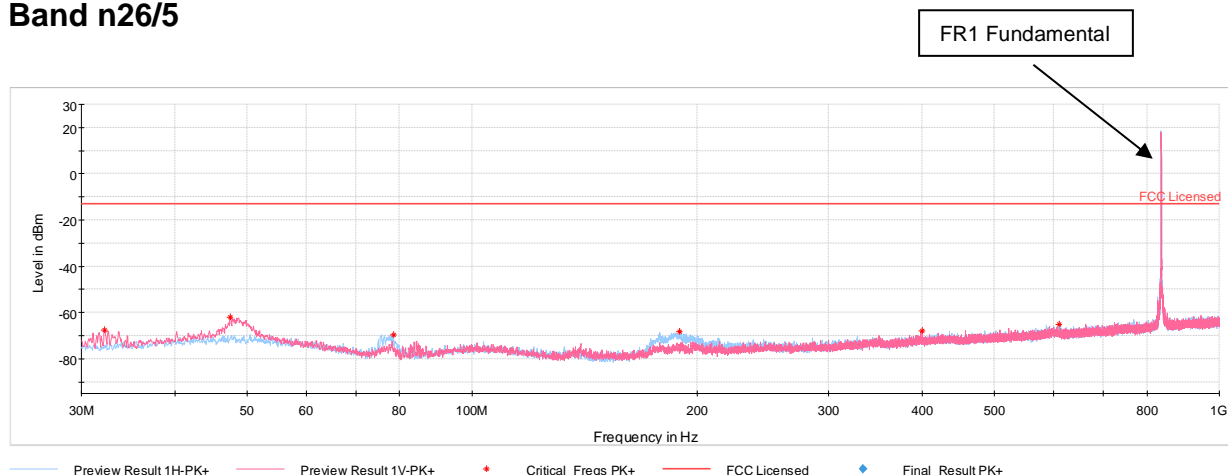
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	259	267	-75.10	-1.79	30.11	-65.15	-13.00	-52.15
2517.0	H	317	222	-69.42	2.27	39.85	-55.40	-13.00	-42.40
3356.0	V	-	-	-79.03	3.80	31.77	-63.49	-13.00	-50.49
4195.0	V	-	-	-80.06	6.04	32.98	-62.28	-13.00	-49.28
5034.0	V	-	-	-80.42	7.34	33.92	-61.34	-13.00	-48.34

Table 7-18. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

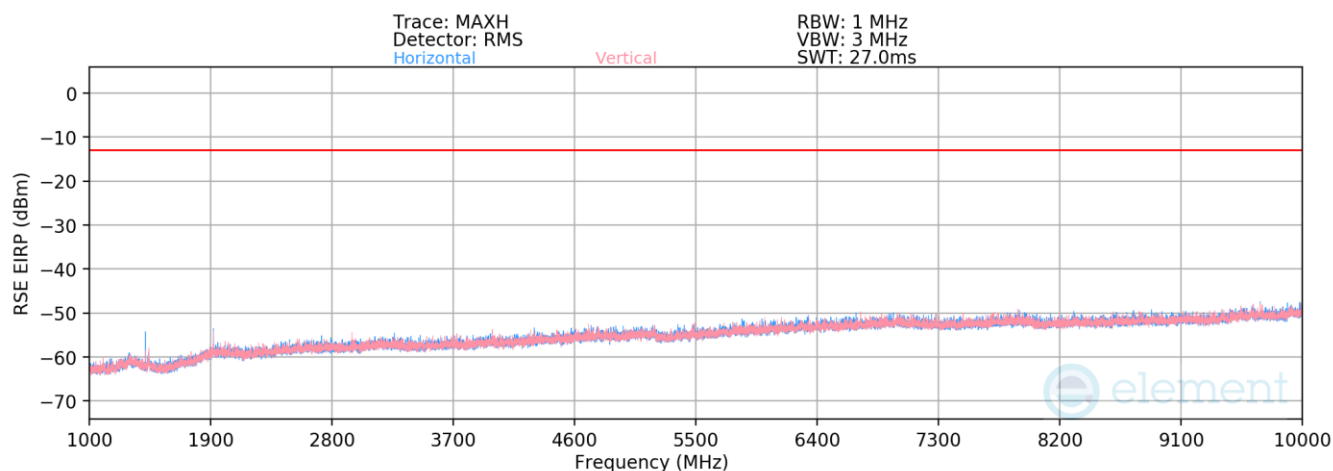
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NR Band n26/5



Plot 7-114. Antenna 4 Radiated Spurious Plot below 1GHz (NR Band n26/5)



Plot 7-115. Antenna 4 Radiated Spurious Plot above 1GHz (NR Band n26/5)

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Bandwidth (MHz):	20
Frequency (MHz):	834.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	V	256	49	-75.30	-1.79	29.91	-65.35	-13.00	-52.35
2502.0	V	-	-	-78.19	2.16	30.97	-64.29	-13.00	-51.29
3336.0	V	-	-	-79.13	4.11	31.98	-63.28	-13.00	-50.28
4170.0	V	-	-	-79.66	5.44	32.77	-62.48	-13.00	-49.48

Table 7-19. Antenna 4 Radiated Spurious Data (NR Band n26/5 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	V	230	0	-75.76	-1.84	29.39	-65.86	-13.00	-52.86
2509.5	V	-	-	-78.07	2.27	31.21	-64.05	-13.00	-51.05
3346.0	V	-	-	-79.16	3.87	31.72	-63.54	-13.00	-50.54
4182.5	V	-	-	-80.13	6.04	32.91	-62.35	-13.00	-49.35

Table 7-20. Antenna 4 Radiated Spurious Data (NR Band n26/5 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	839.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	261	199	-72.06	-1.84	33.09	-62.17	-13.00	-49.17
2517.0	V	-	-	-78.27	2.32	31.05	-64.21	-13.00	-51.21
3356.0	V	-	-	-79.31	4.16	31.85	-63.41	-13.00	-50.41
4195.0	V	-	-	-79.51	5.44	32.93	-62.33	-13.00	-49.33

Table 7-21. Antenna 4 Radiated Spurious Data (NR Band n26/5 – High Channel)

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WCDMA Cell

Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.8	H	-	-	-77.66	-1.80	27.54	-67.72	-13.00	-54.72
2479.2	H	-	-	-78.27	2.06	30.79	-64.47	-13.00	-51.47
3305.6	H	-	-	-78.95	3.97	32.02	-63.24	-13.00	-50.24

Table 7-22. Antenna 4 Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	H	-	-	-77.55	-1.57	27.88	-67.37	-13.00	-54.37
2509.8	H	-	-	-78.07	2.28	31.21	-64.04	-13.00	-51.04
3346.4	H	-	-	-79.05	4.02	31.97	-63.29	-13.00	-50.29

Table 7-23. Antenna 4 Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.2	V	262	124	-74.48	-1.36	31.16	-64.10	-13.00	-51.10
2539.8	H	-	-	-78.06	2.53	31.47	-63.79	-13.00	-50.79
3386.4	H	-	-	-78.85	3.79	31.94	-63.32	-13.00	-50.32
4233.0	H	-	-	-79.51	5.56	33.05	-62.21	-13.00	-49.21

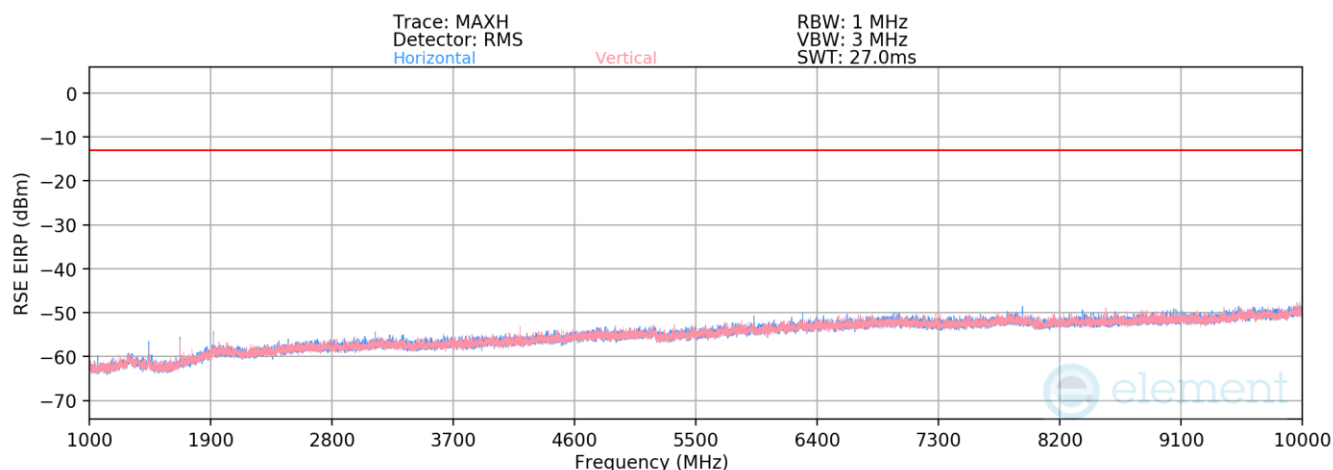
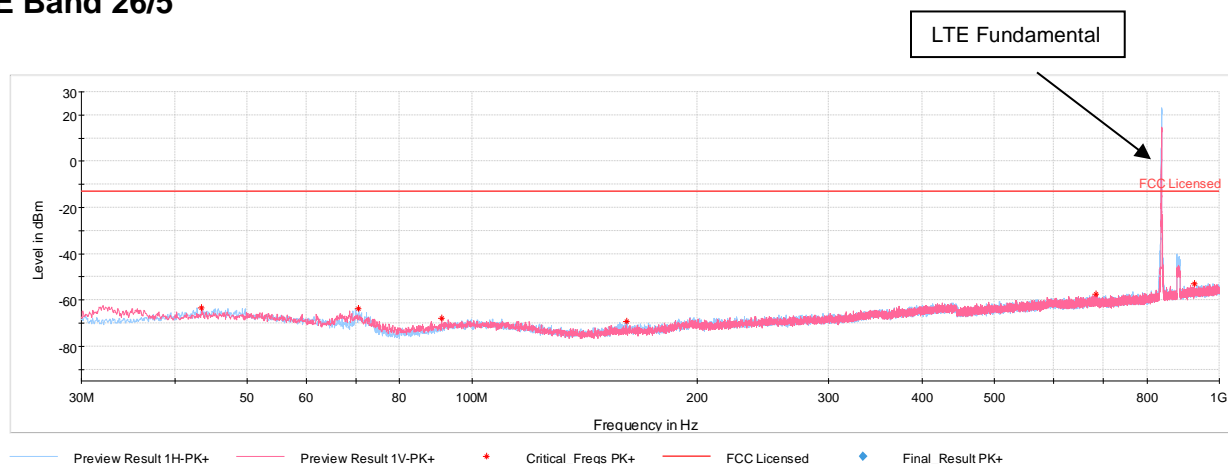
Table 7-24. Antenna 4 Radiated Spurious Data (WCDMA Cell – High Channel)


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7.6.2 Antenna 2 – Radiated Spurious Emission Measurements

LTE Band 26/5



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Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	H	150	22	-72.47	-1.82	32.72	-62.54	-13.00	-49.54
2487.0	H	258	180	-77.73	1.94	31.20	-64.05	-13.00	-51.05
3316.0	H	-	-	-79.27	4.11	31.84	-63.42	-13.00	-50.42
4145.0	H	-	-	-79.66	5.42	32.76	-62.50	-13.00	-49.50
4974.0	H	-	-	-80.35	7.21	33.86	-61.40	-13.00	-48.40

Table 7-25. Antenna 2 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 24


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	227	206	-69.10	-1.84	36.05	-59.20	-13.00	-46.20
2509.5	H	-	-	-78.26	2.27	31.01	-64.25	-13.00	-51.25
3346.0	V	-	-	-79.38	4.11	31.73	-63.53	-13.00	-50.53
4182.5	V	-	-	-80.01	6.04	33.03	-62.23	-13.00	-49.23

Table 7-26. Antenna 2 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 24

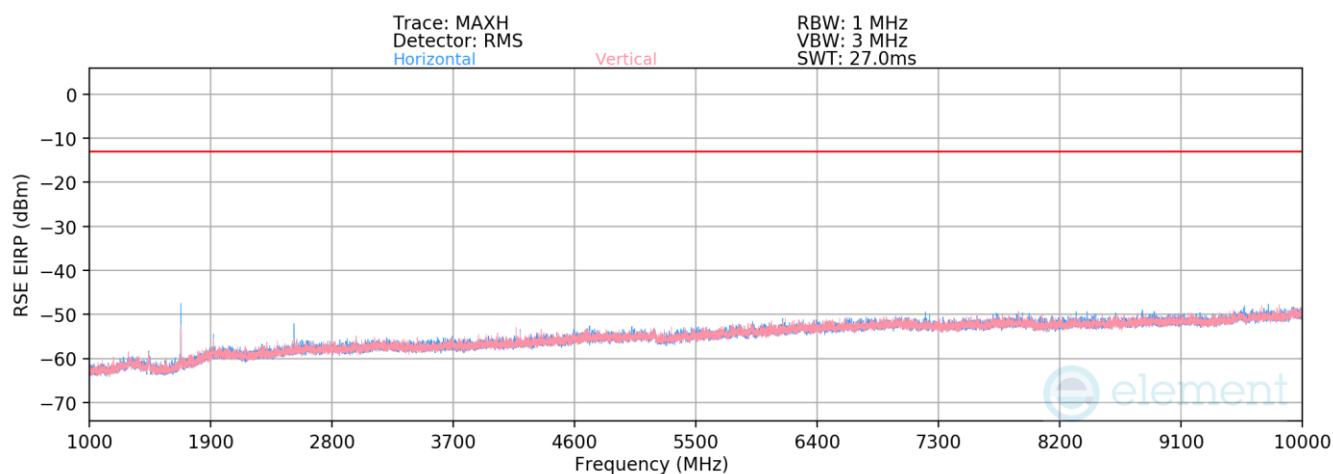
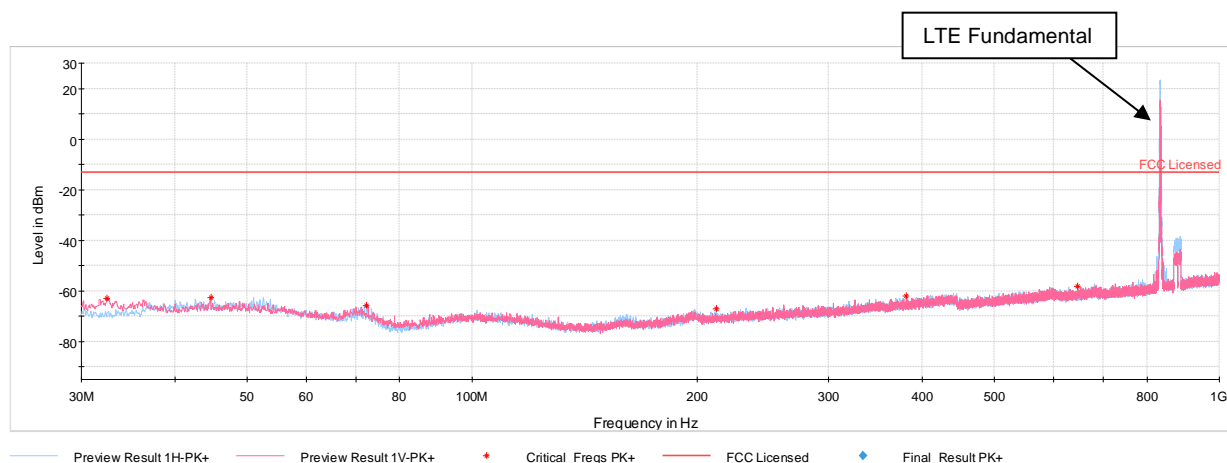
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	239	239	-69.85	-1.79	35.35	-59.90	-13.00	-46.90
2532.0	V	250	360	-77.95	2.32	31.37	-63.89	-13.00	-50.89
3376.0	V	250	360	-79.17	3.80	31.63	-63.63	-13.00	-50.63
4220.0	V	250	360	-79.78	5.55	32.76	-62.50	-13.00	-49.50


Table 7-27. Antenna 2 Radiated Spurious Data (LTE Band 26/5 – High Channel)

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ULCA LTE Band 5



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PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
SCC RB / Offset:	1 / 0


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	251	32	-65.43	-1.84	39.73	-55.53	-13.00	-42.53
2502.0	H	154	167	-74.38	2.16	34.78	-60.47	-13.00	-47.47
3336.0	H	-	-	-78.86	3.87	32.01	-63.25	-13.00	-50.25
4170.0	H	-	-	-79.55	5.44	32.89	-62.37	-13.00	-49.37
5004.0	H	-	-	-80.48	7.34	33.86	-61.40	-13.00	-48.40

Table 7-28. Antenna 2 Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	245	330	-64.42	-1.84	40.74	-54.52	-13.00	-41.52
2517.0	H	150	166	-73.04	2.27	36.23	-59.03	-13.00	-46.03
3356.0	H	-	-	-79.06	3.80	31.74	-63.52	-13.00	-50.52
4195.0	H	-	-	-79.61	5.44	32.83	-62.43	-13.00	-49.43
5034.0	H	-	-	-80.49	7.34	33.85	-61.41	-13.00	-48.41

Table 7-29. Antenna 2 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

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NR Band n26/5

Bandwidth (MHz):	20
Frequency (MHz):	834.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	-	-	-72.26	-5.27	29.47	-65.79	-13.00	-52.79
2502.0	H	-	-	-74.15	-0.16	32.69	-62.57	-13.00	-49.57
3336.0	H	-	-	-75.60	2.11	33.50	-61.75	-13.00	-48.75

Table 7-30. Antenna 2 Radiated Spurious Data (NR Band n26/5 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	-	-	-71.94	-5.27	29.79	-65.47	-13.00	-52.47
2509.5	H	-	-	-74.24	-0.16	32.60	-62.66	-13.00	-49.66
3346.0	H	-	-	-75.86	2.23	33.36	-61.90	-13.00	-48.90

Table 7-31. Antenna 2 Radiated Spurious Data (NR Band n26/5 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	839.0
RB / Offset:	1 / 50

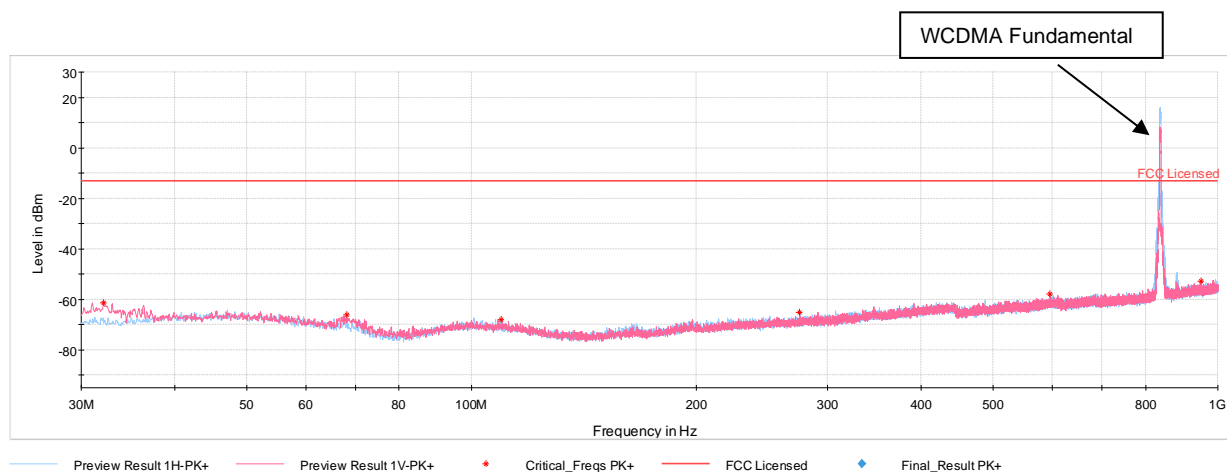
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	-	-	-71.64	-5.27	30.10	-65.16	-13.00	-52.16
2517.0	H	-	-	-74.36	0.03	32.67	-62.59	-13.00	-49.59
3356.0	H	-	-	-75.92	2.24	33.33	-61.93	-13.00	-48.93

Table 7-32. Antenna 2 Radiated Spurious Data (NR Band n26/5 – High Channel)

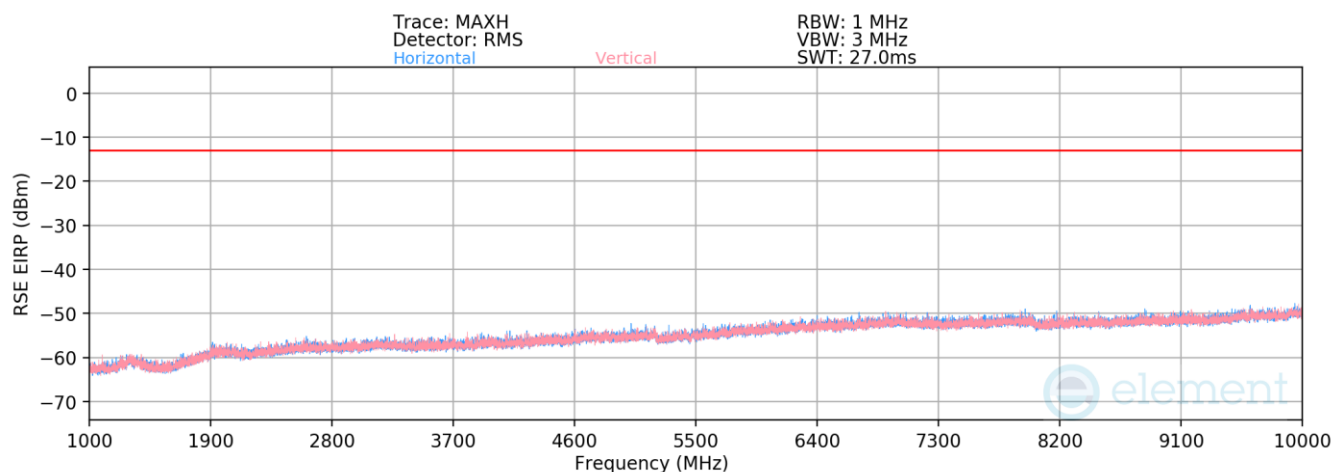
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WCDMA Cell



Plot 7-120. Antenna 2 Radiated Spurious Plot below 1GHz (WCDMA Cell)



Plot 7-121. Antenna 2 Radiated Spurious Plot above 1GHz (WCDMA Cell)

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Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.8	H	-	-	-77.78	-1.80	27.42	-67.84	-13.00	-54.84
2479.2	H	-	-	-78.12	2.06	30.94	-64.32	-13.00	-51.32
3305.6	H	-	-	-78.99	3.97	31.98	-63.28	-13.00	-50.28

Table 7-33. Antenna 2 Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	H	-	-	-77.66	-1.57	27.77	-67.48	-13.00	-54.48
2509.8	H	-	-	-78.01	2.28	31.27	-63.98	-13.00	-50.98
3346.4	H	-	-	-79.20	4.02	31.82	-63.44	-13.00	-50.44

Table 7-34. Antenna 2 Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.2	H	287	343	-70.61	-1.36	35.03	-60.23	-13.00	-47.23
2539.8	H	-	-	-77.88	2.53	31.65	-63.61	-13.00	-50.61
3386.4	H	-	-	-79.01	3.79	31.78	-63.48	-13.00	-50.48
4233.0	H	-	-	-79.56	5.56	33.00	-62.26	-13.00	-49.26

Table 7-35. Antenna 2 Radiated Spurious Data (WCDMA Cell – High Channel)

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7.7 Frequency Stability / Temperature Variation

§2.1055, 22.355

Test Overview and Limit

Frequency Tolerance testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. All port were tested and only the worst case data were reported. The Frequency Tolerance of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the Frequency Tolerance of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.


Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

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Test Setup

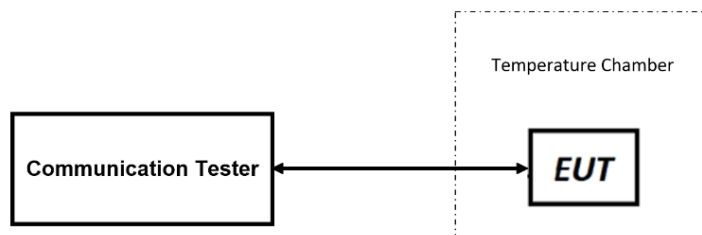


Figure 7-11. LTE Test Instrument & Measurement Setup

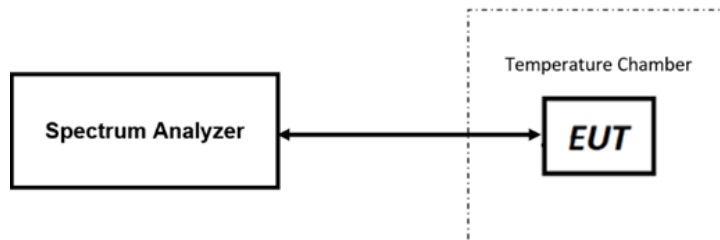



Figure 7-12. FR1 Test Instrument & Measurement Setup

Test Notes

1. All port were tested and only the worst case data were reported.


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Frequency Tolerance / Temperature Variation

LTE Band 26/5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,103	69.00	0.0000082
		- 20	836,500,086	52.00	0.0000062
		- 10	836,500,154	120.00	0.0000143
		0	836,499,971	-63.00	-0.0000075
		+ 10	836,499,975	-59.00	-0.0000071
		+ 20 (Ref)	836,500,034	0.00	0.0000000
		+ 30	836,500,163	129.00	0.0000154
		+ 40	836,500,230	196.00	0.0000234
		+ 50	836,500,126	92.00	0.0000110
Battery Endpoint	3.40	+ 20	836,500,093	59.00	0.0000071

Table 7-36. LTE Band 26/5 Frequency Tolerance Data


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Frequency Tolerance / Temperature Variation

NR Band n26/5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,245	214.00	0.0000256
		- 20	836,500,226	195.00	0.0000233
		- 10	836,500,087	56.00	0.0000067
		0	836,500,123	92.00	0.0000110
		+ 10	836,500,080	49.00	0.0000059
		+ 20 (Ref)	836,500,031	0.00	0.0000000
		+ 30	836,499,947	-84.00	-0.0000100
		+ 40	836,500,165	134.00	0.0000160
		+ 50	836,500,178	147.00	0.0000176
Battery Endpoint	3.40	+ 20	836,500,083	52.00	0.0000062

Table 7-37. NR Band n26/n5 Frequency Tolerance Data


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Frequency Tolerance / Temperature Variation

WCDMA Cellular					
		Operating Frequency (Hz):		836,600,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,599,955	-63.00	-0.0000075
		- 20	836,599,893	-125.00	-0.0000149
		- 10	836,599,750	-268.00	-0.0000320
		0	836,599,955	-63.00	-0.0000075
		+ 10	836,600,034	16.00	0.0000019
		+ 20 (Ref)	836,600,018	0.00	0.0000000
		+ 30	836,599,976	-42.00	-0.0000050
		+ 40	836,599,960	-58.00	-0.0000069
		+ 50	836,599,876	-142.00	-0.0000170
Battery Endpoint	3.40	+ 20	836,600,084	66.00	0.0000079


Table 7-38. WCDMA Cell Frequency Tolerance Data

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2995** complies with all the requirements of Part 22 of the FCC rules.

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