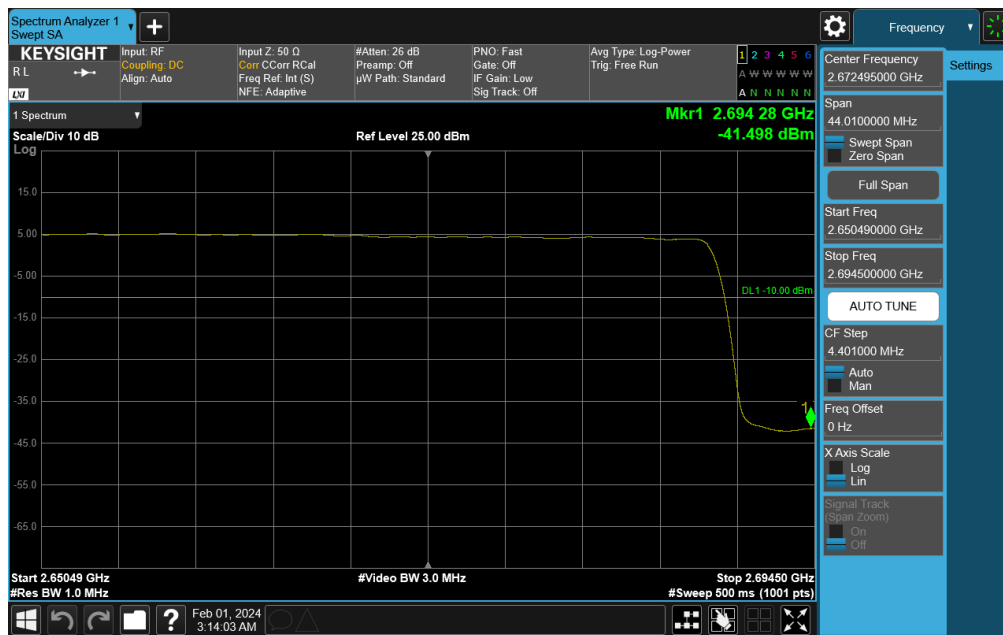
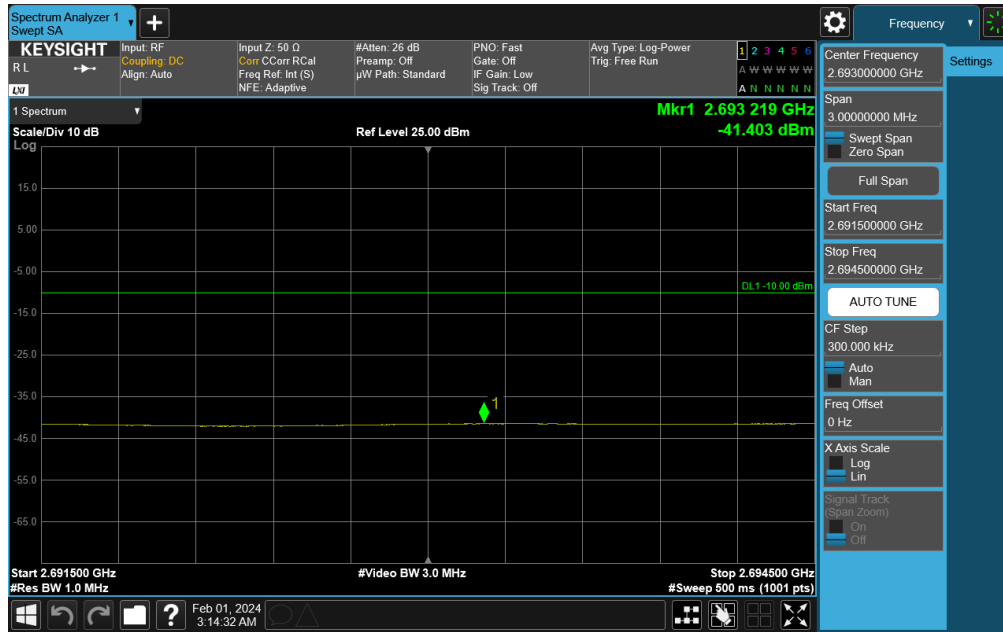


Plot 7-852. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

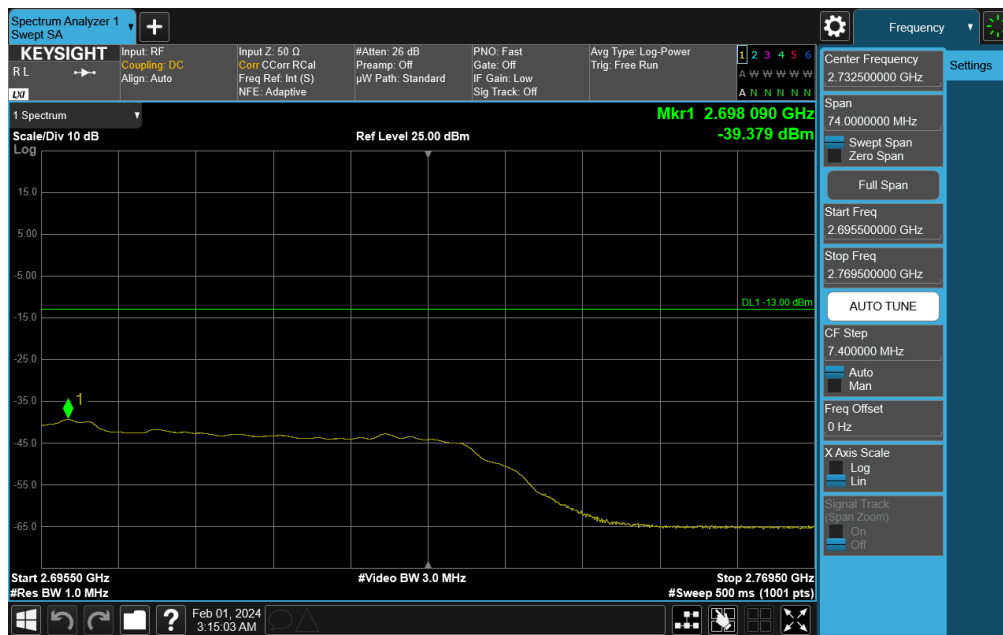


Plot 7-853. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 451 of 571

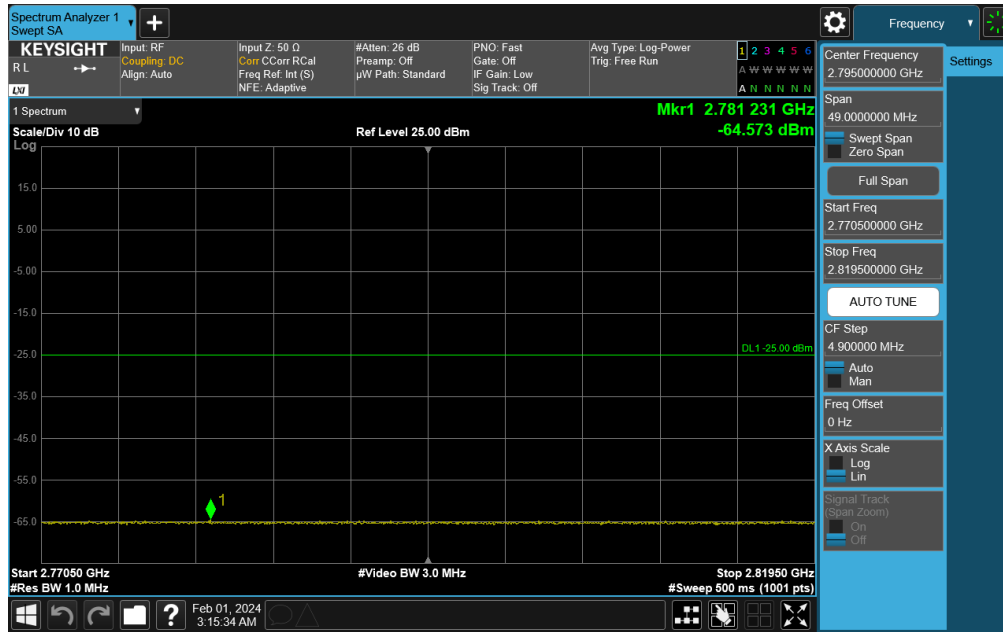


Plot 7-854. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

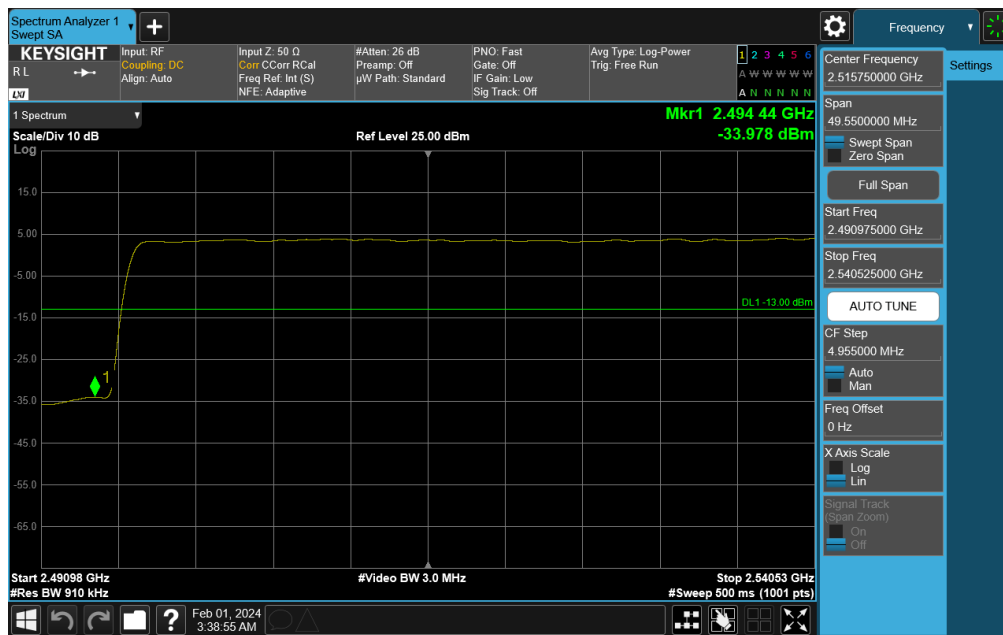


Plot 7-855. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 452 of 571

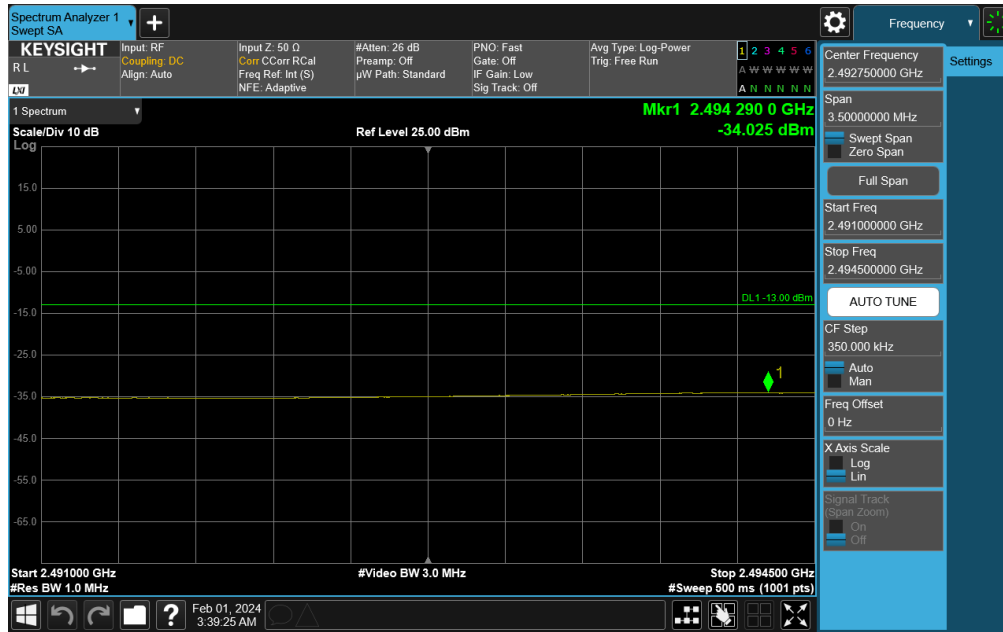


Plot 7-856. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

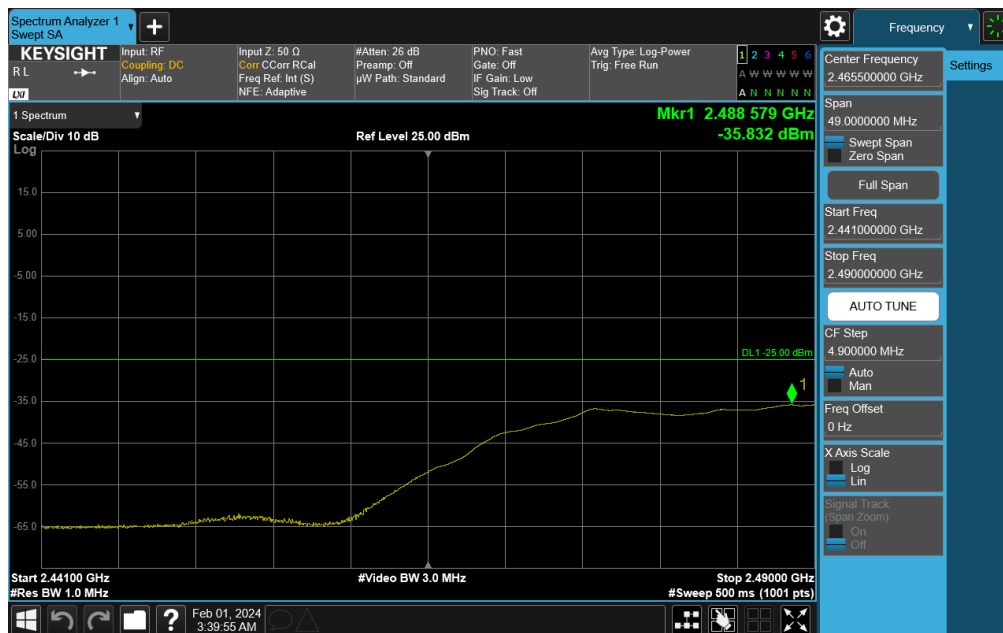


Plot 7-857. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 453 of 571

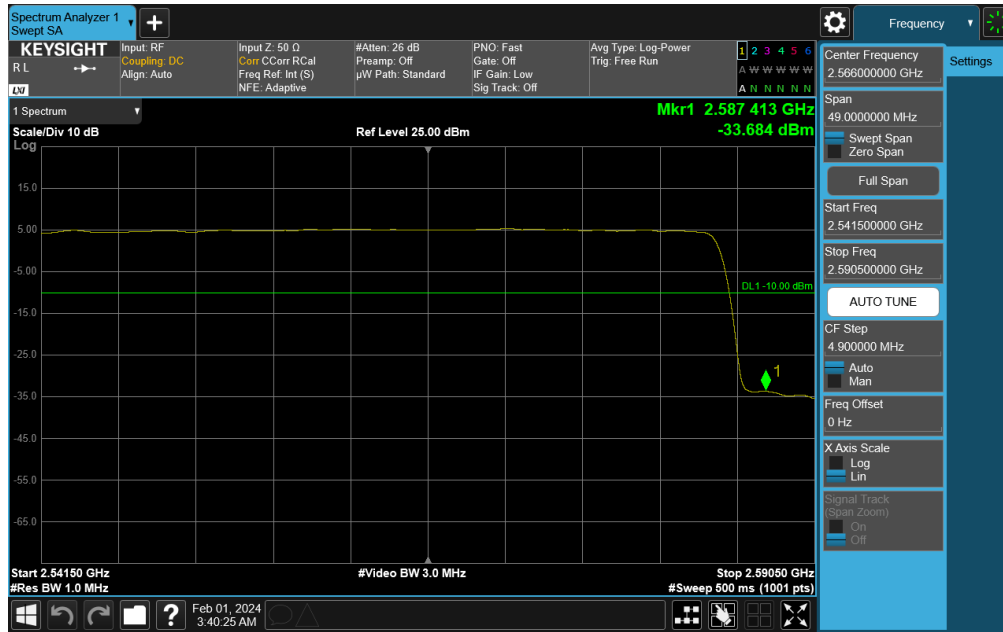


Plot 7-858. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

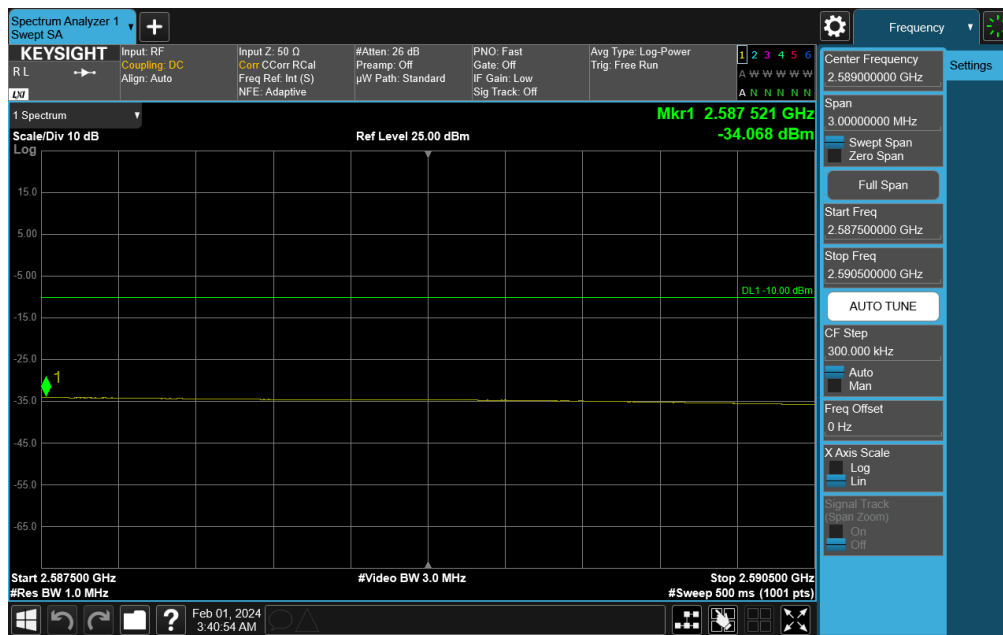


Plot 7-859. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 454 of 571

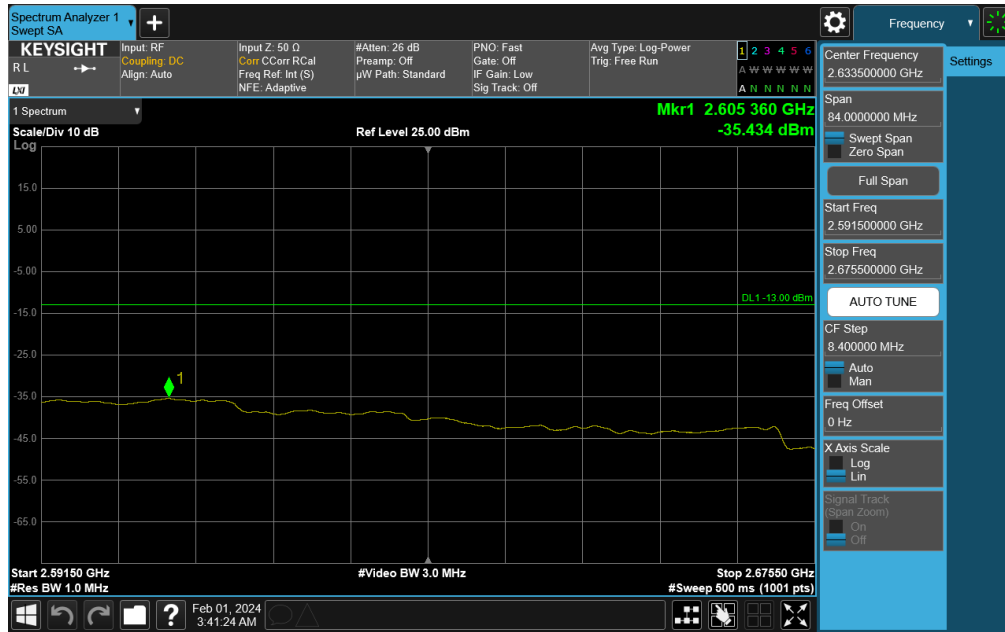


Plot 7-860. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

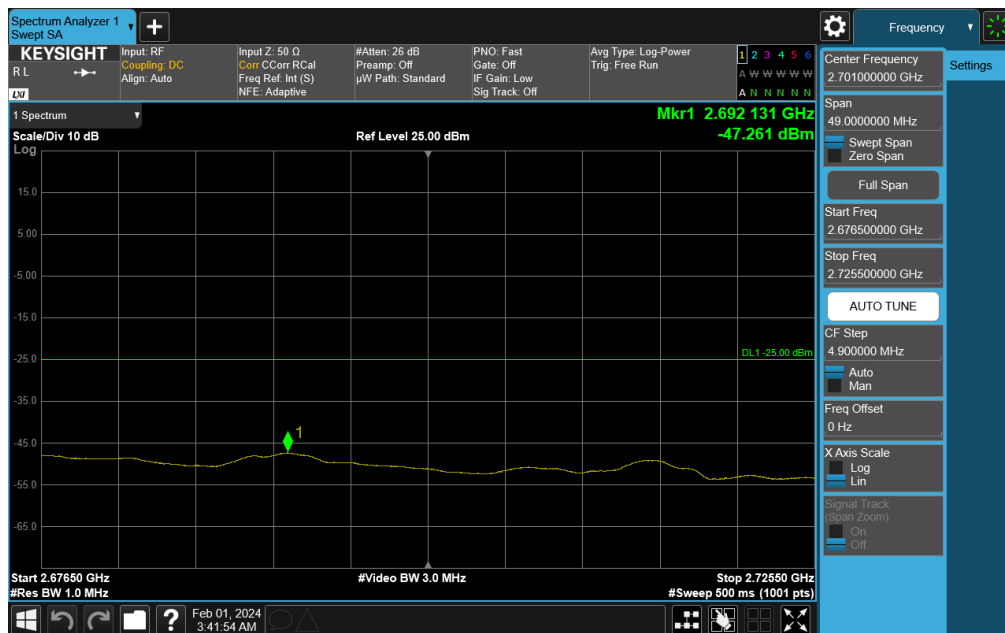


Plot 7-861. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 455 of 571

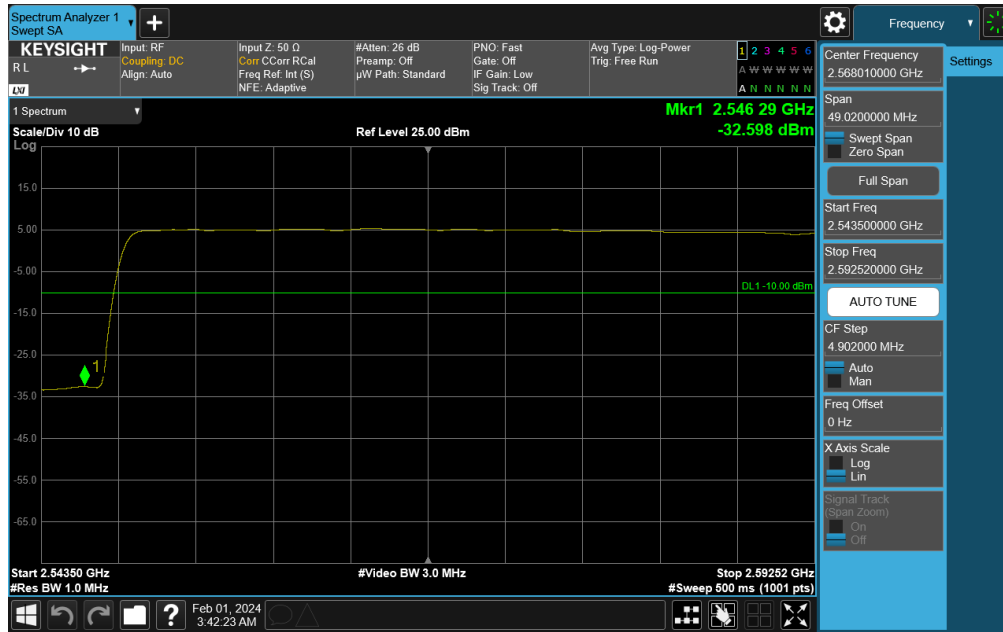


Plot 7-862. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

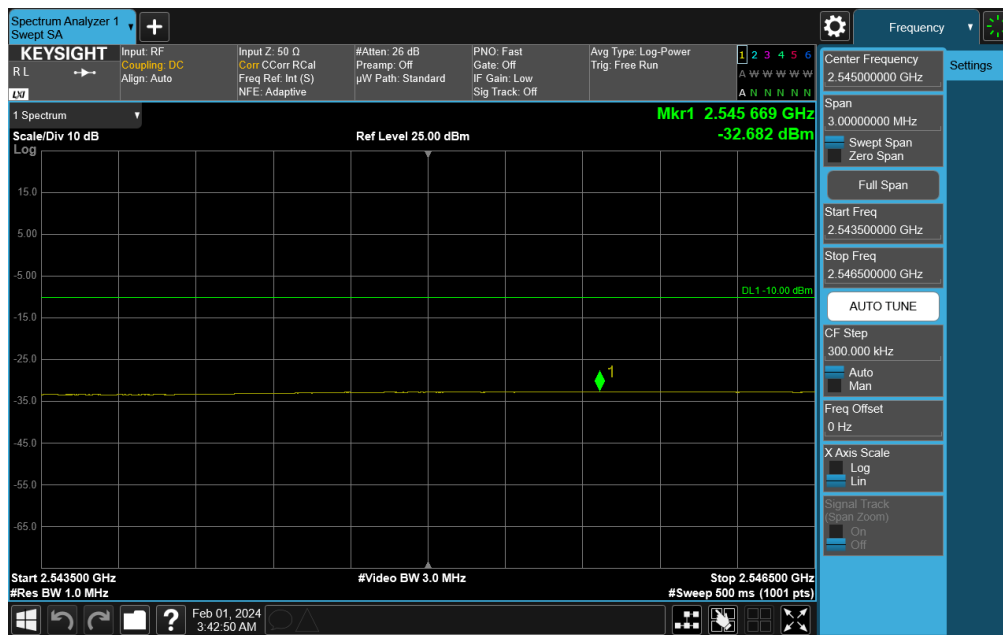


Plot 7-863. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 456 of 571

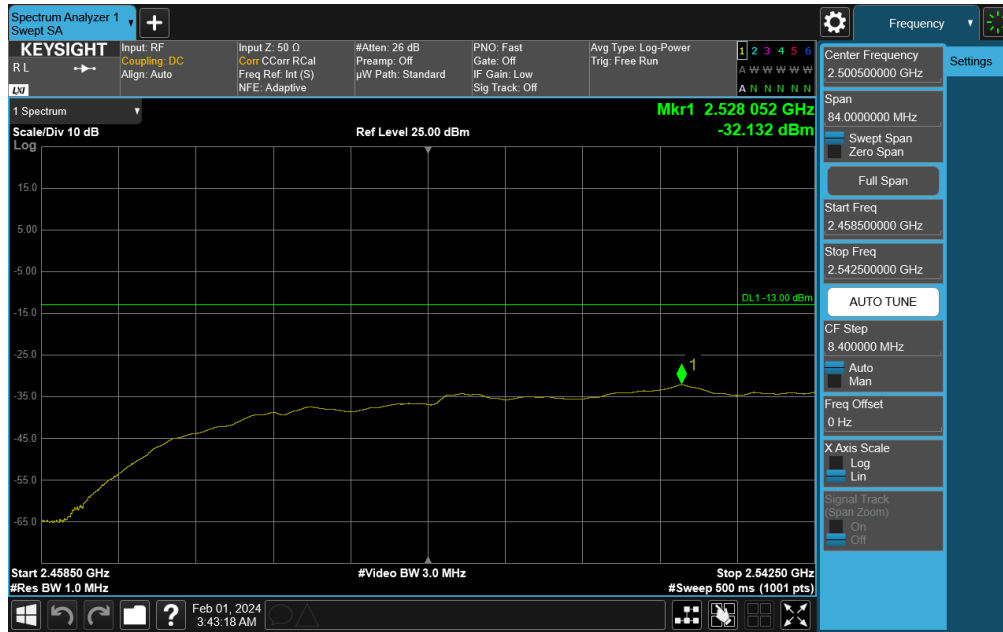


Plot 7-864. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

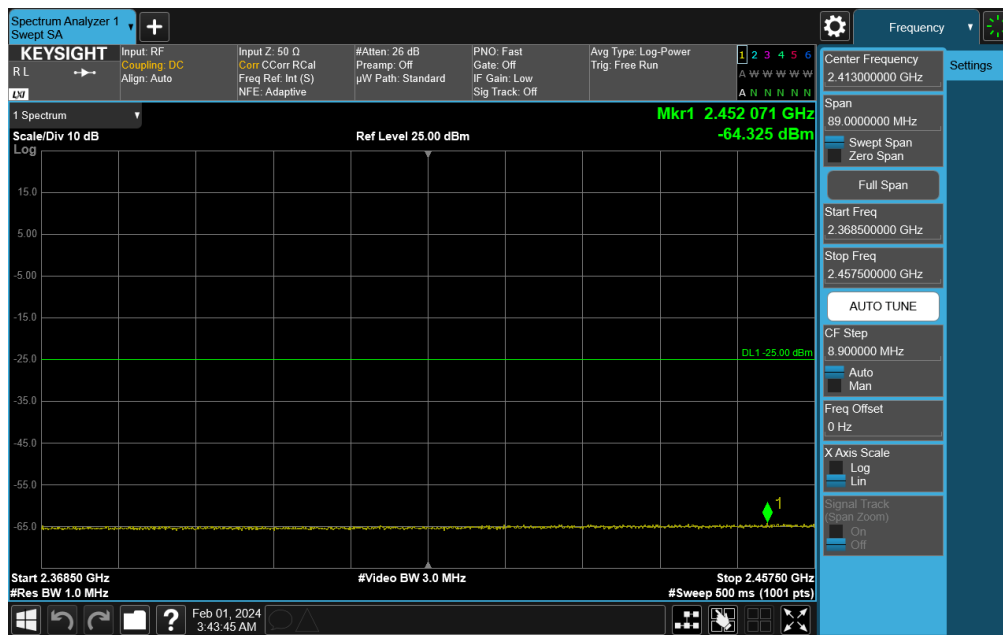


Plot 7-865. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 457 of 571

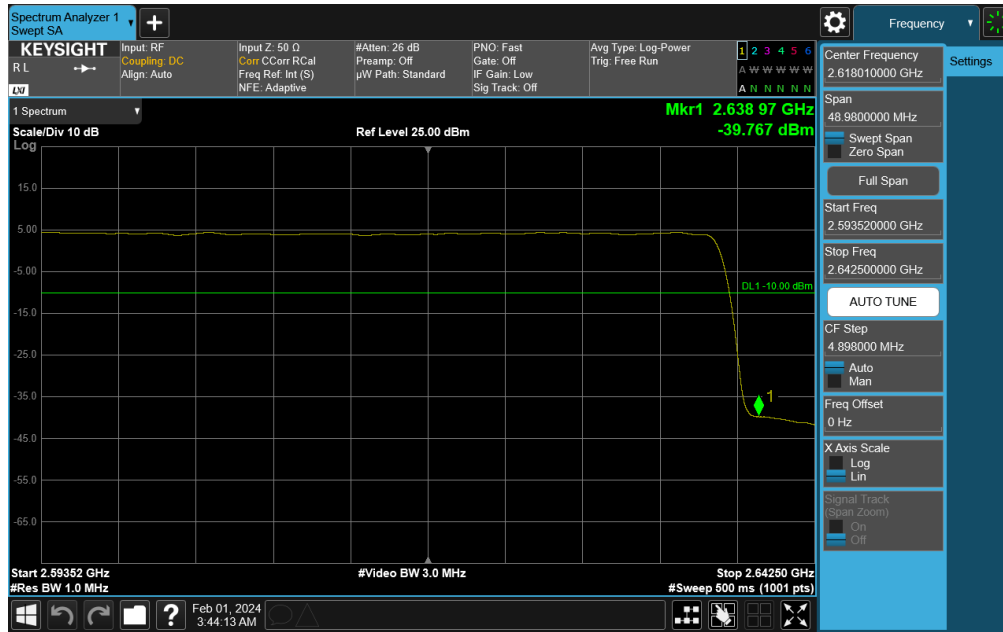


Plot 7-866. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

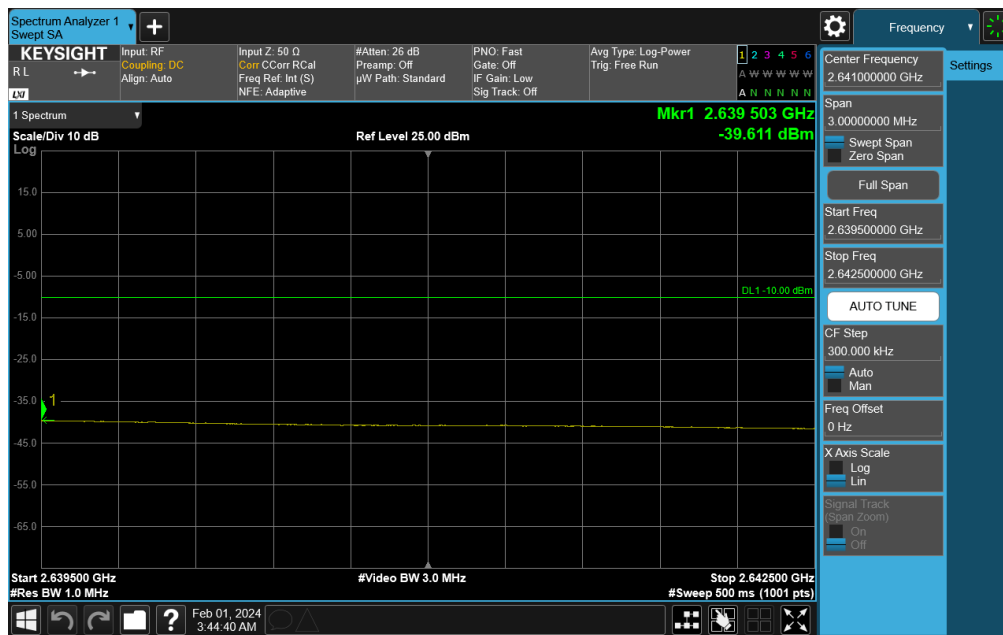


Plot 7-867. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 458 of 571

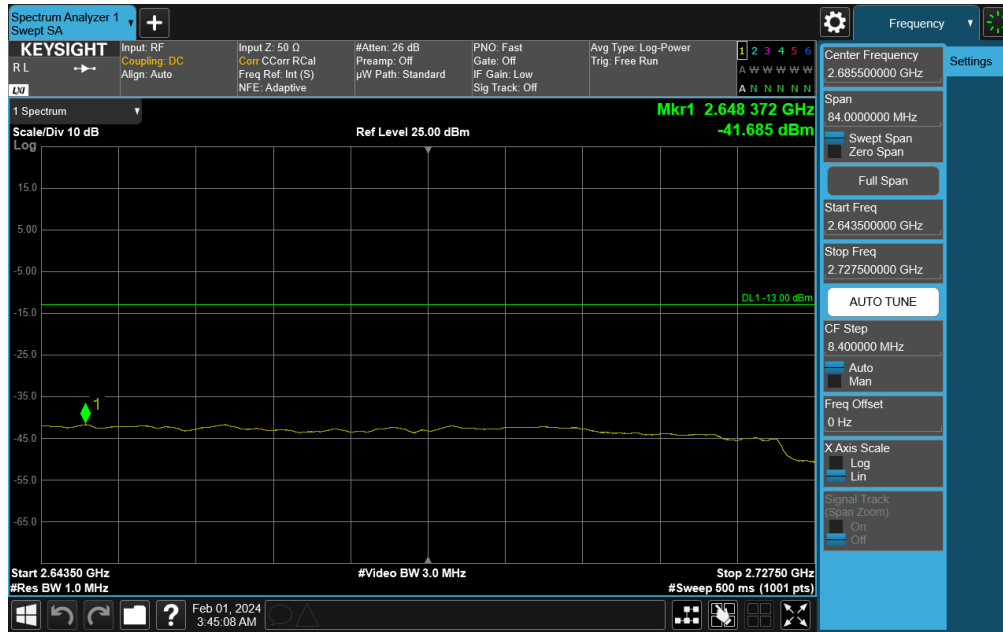


Plot 7-868. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

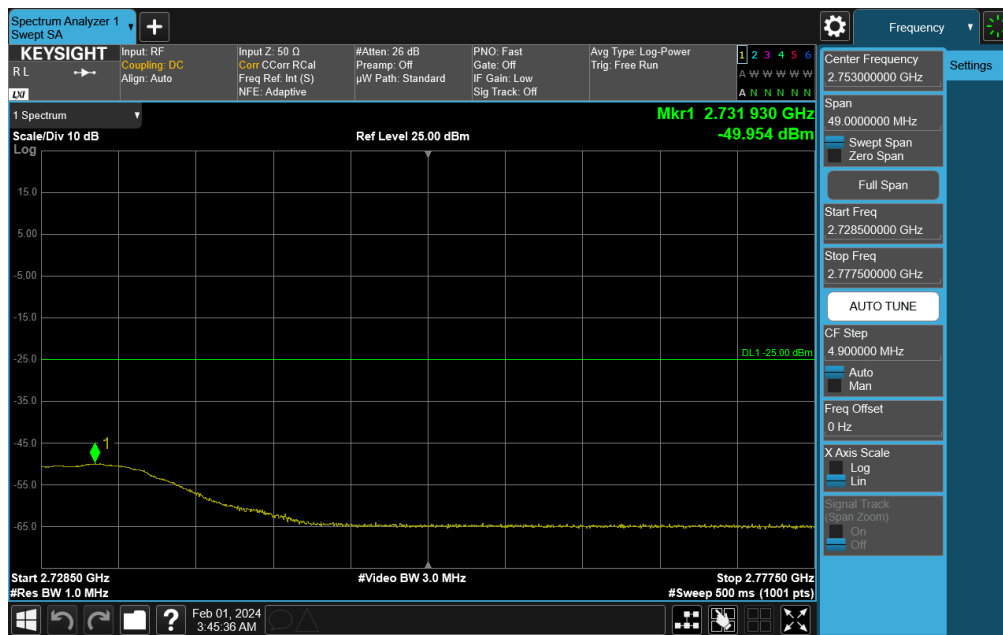


Plot 7-869. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 459 of 571

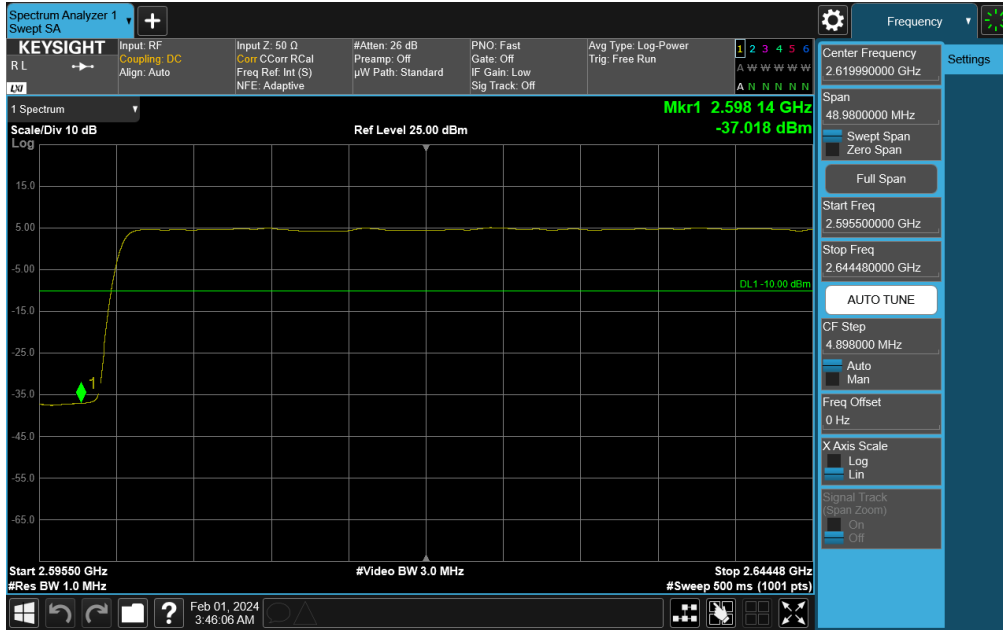


Plot 7-870. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

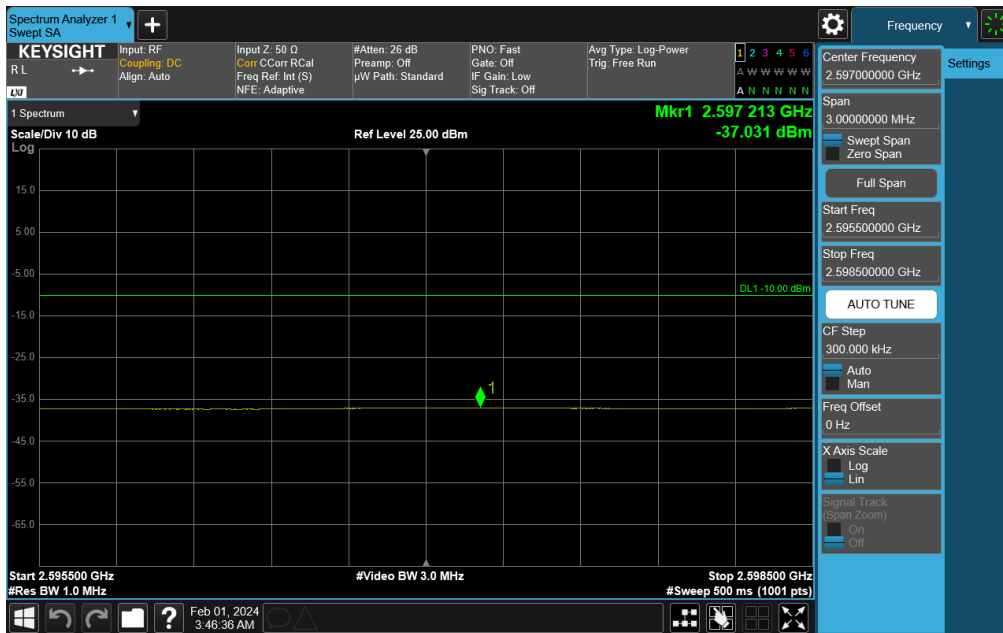


Plot 7-871. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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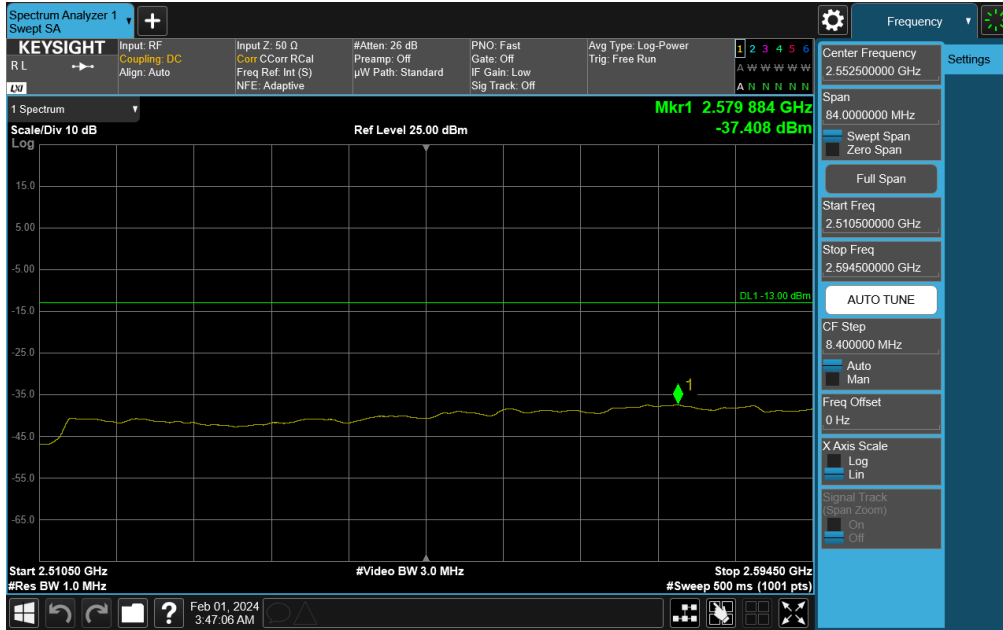


Plot 7-872. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

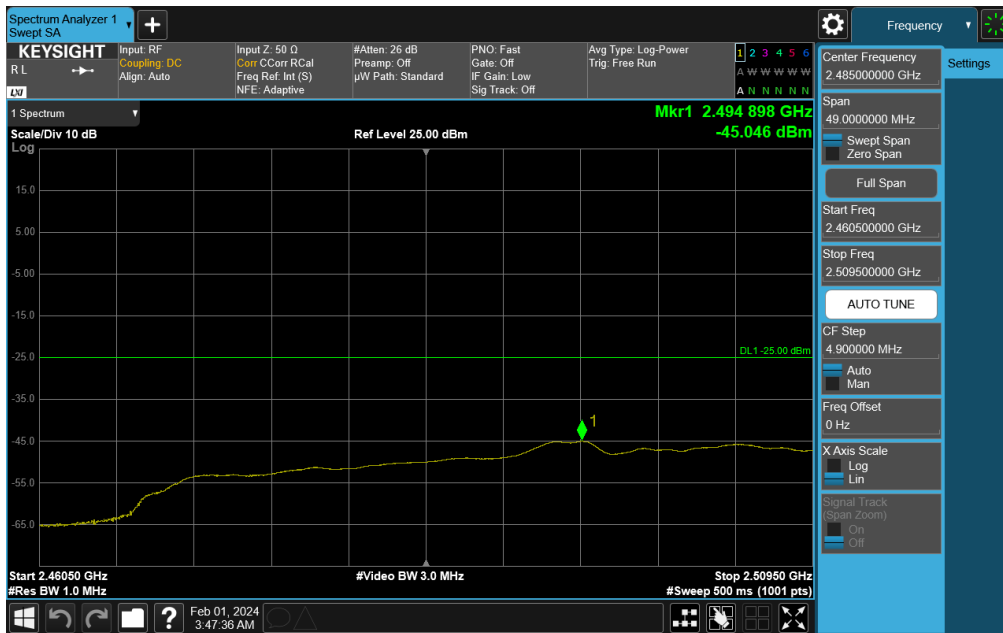


Plot 7-873. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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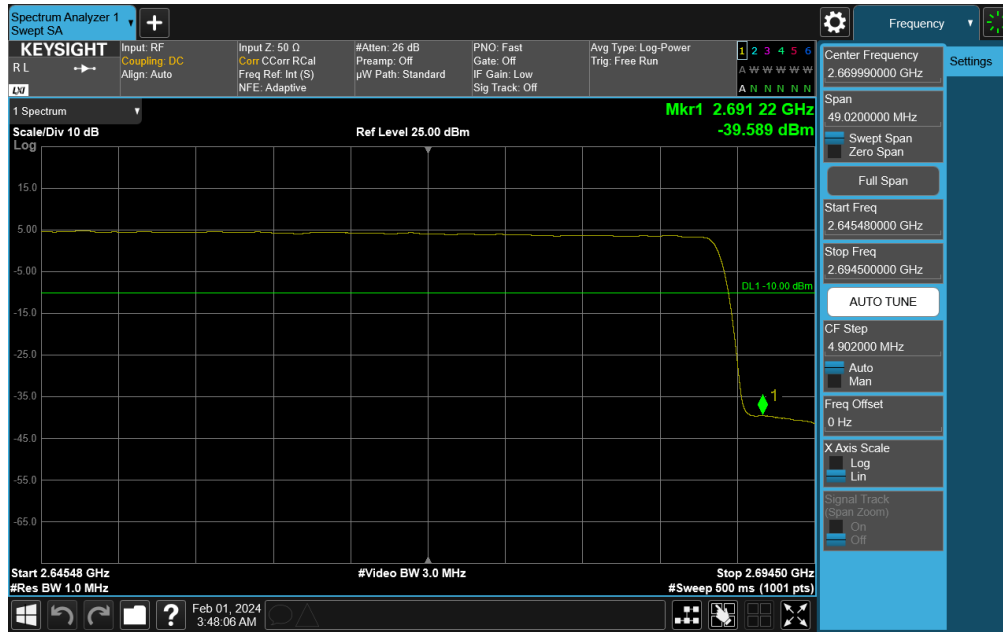


Plot 7-874. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

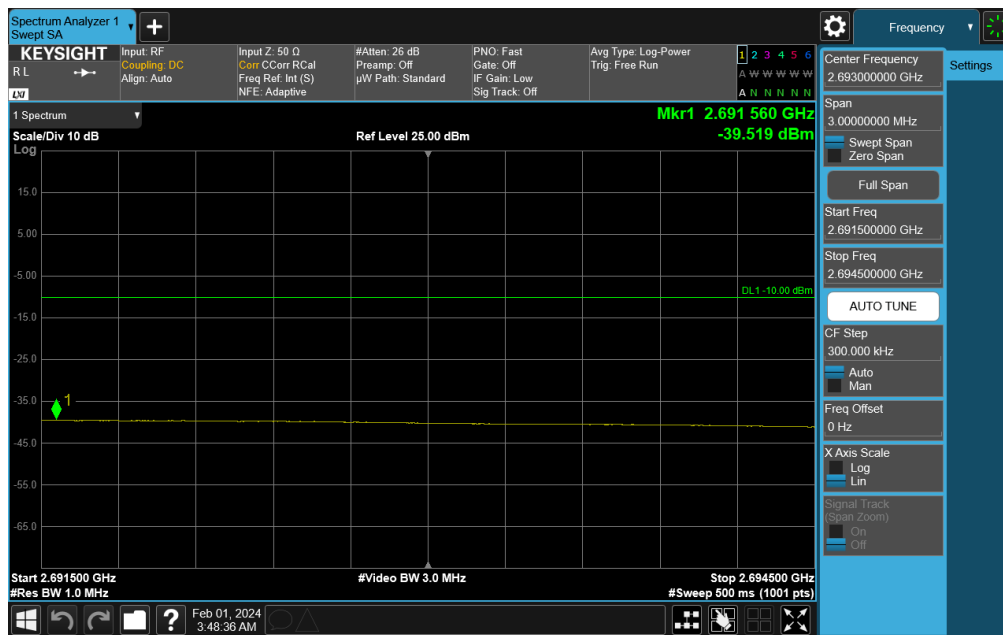


Plot 7-875. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 462 of 571

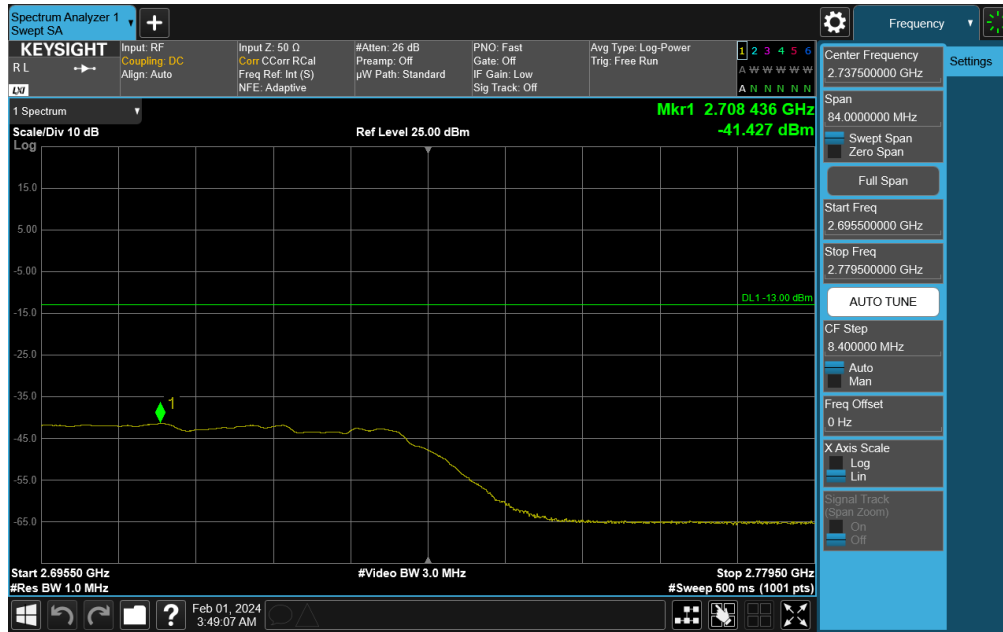


Plot 7-876. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

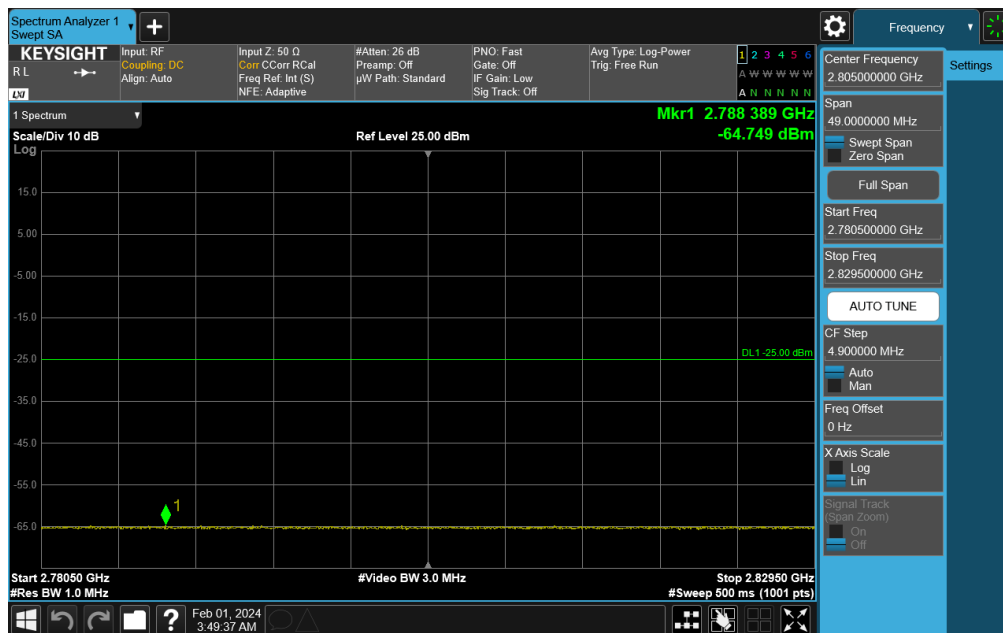


Plot 7-877. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 463 of 571

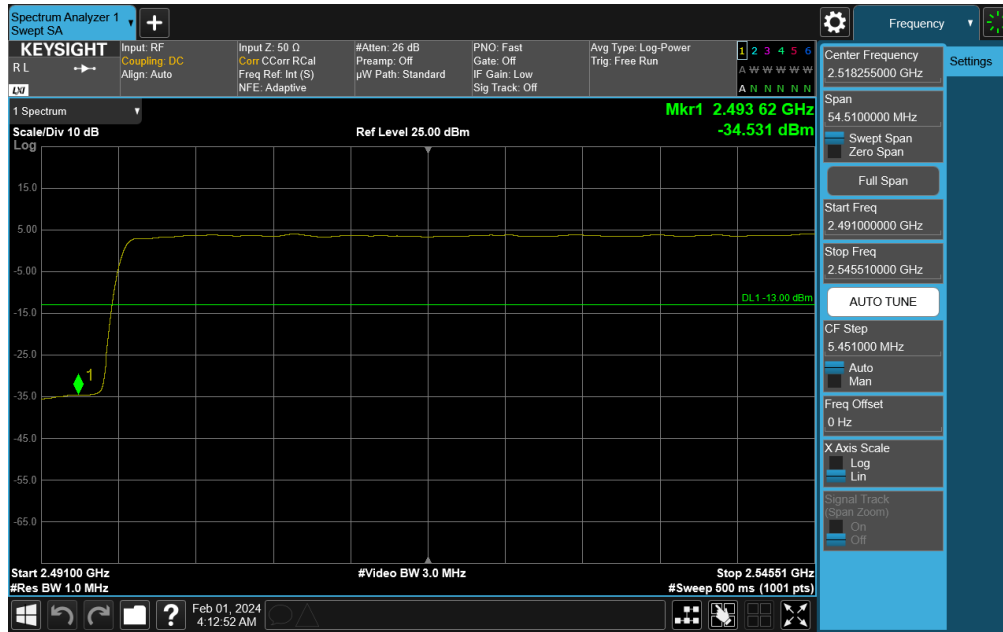


Plot 7-878. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

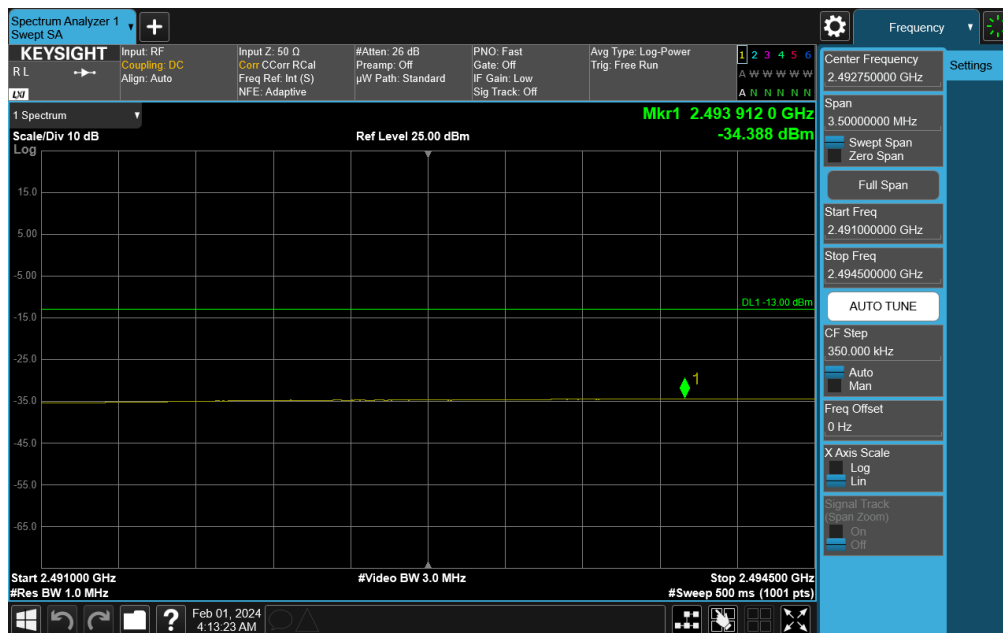


Plot 7-879. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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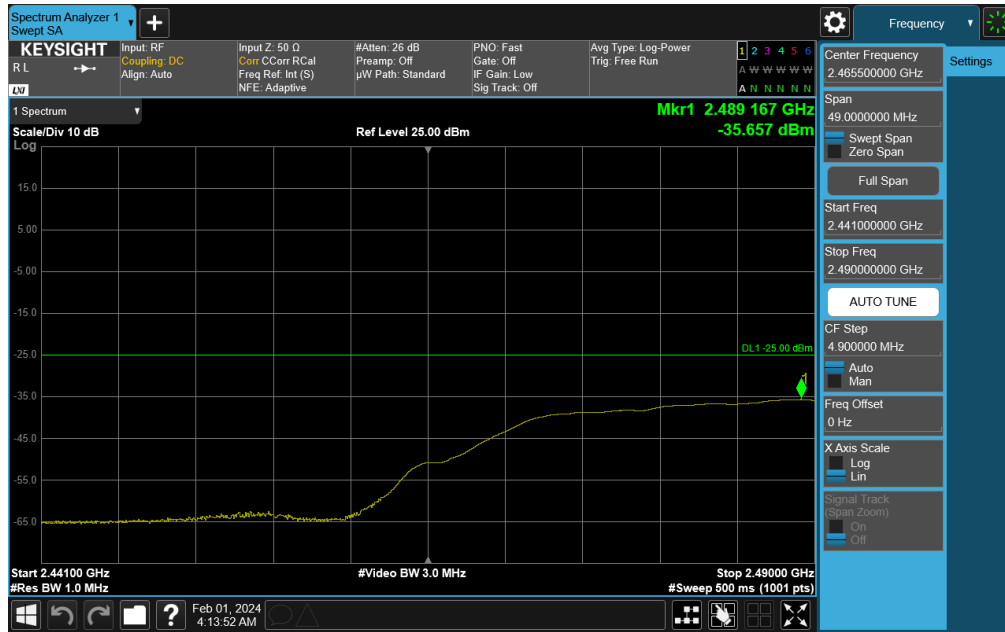


Plot 7-880. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

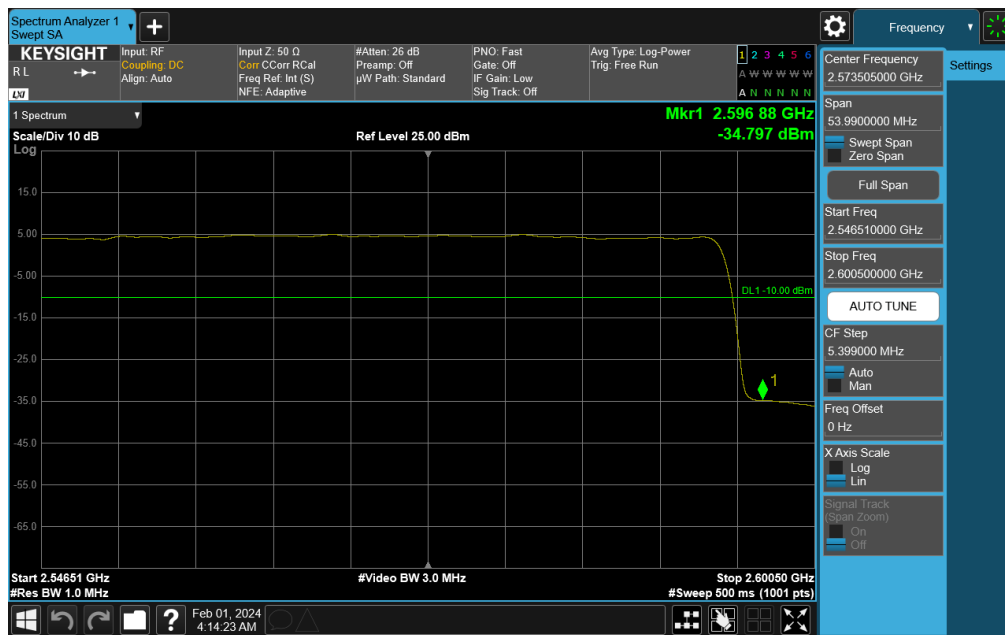


Plot 7-881. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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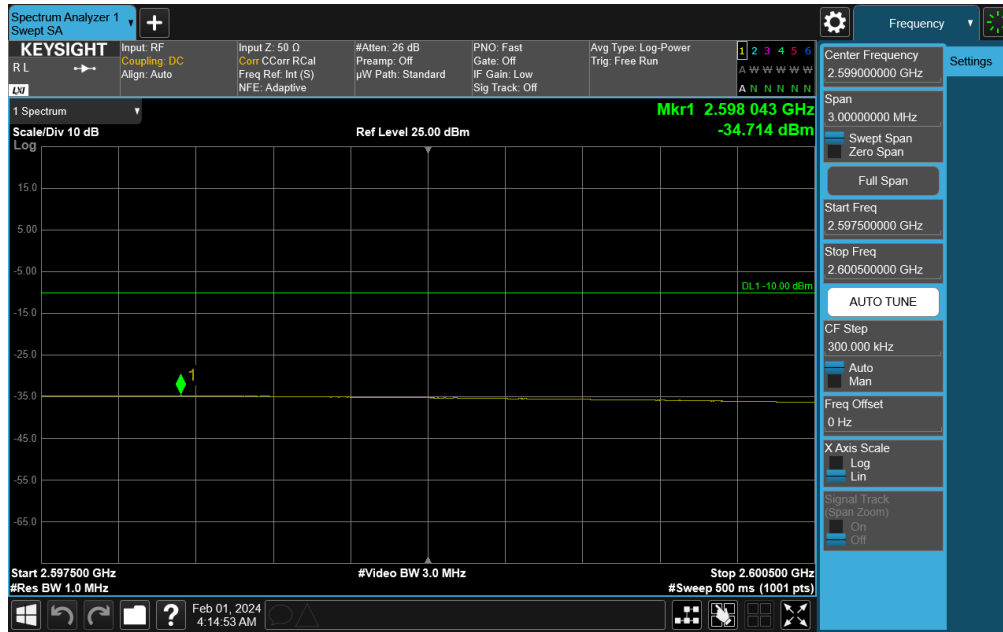


Plot 7-882. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

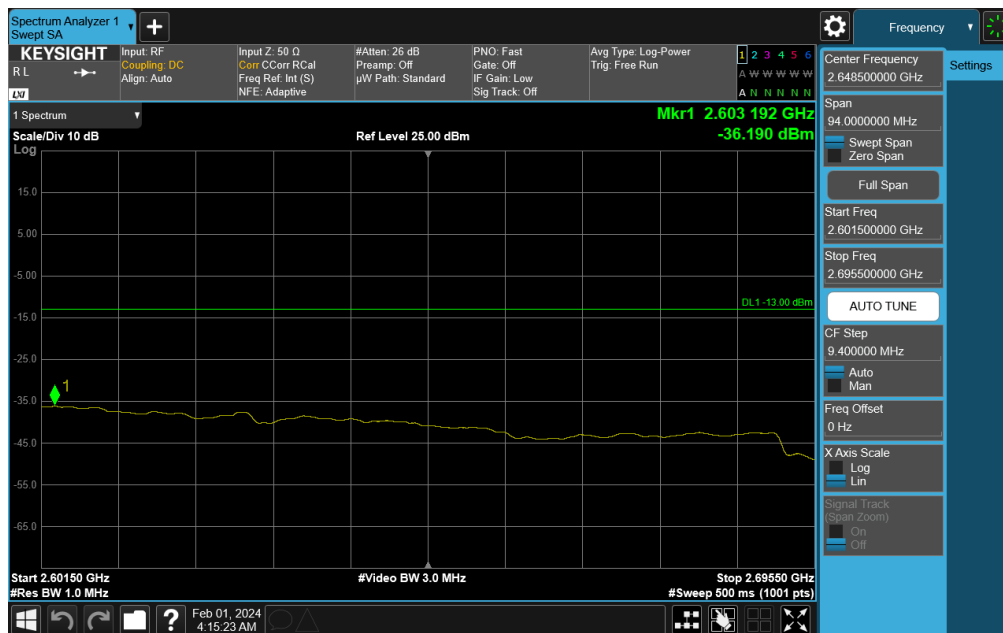


Plot 7-883. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 466 of 571

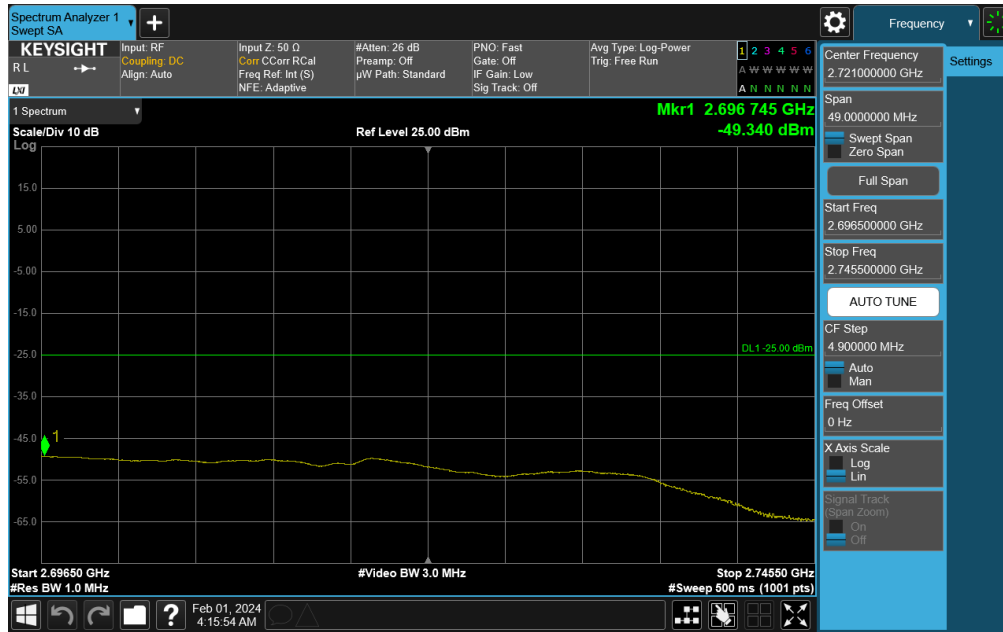


Plot 7-884. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

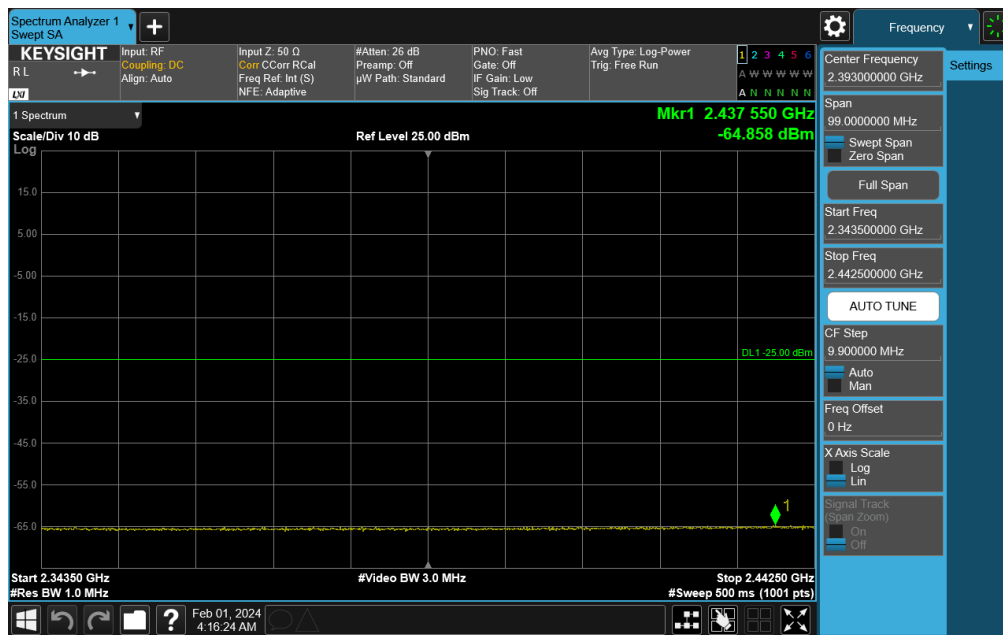


Plot 7-885. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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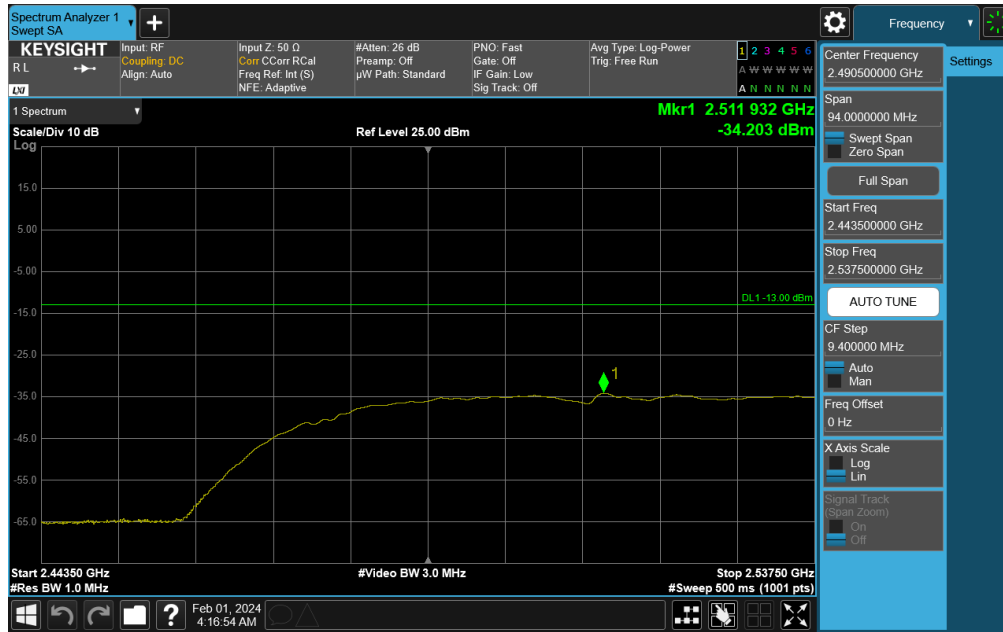


Plot 7-886. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

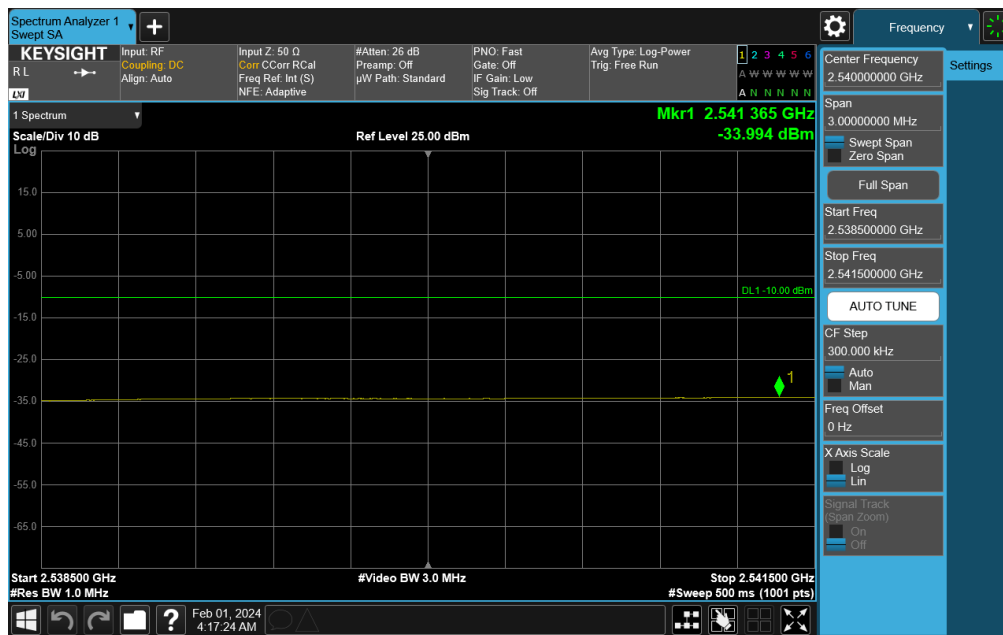


Plot 7-887. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 468 of 571

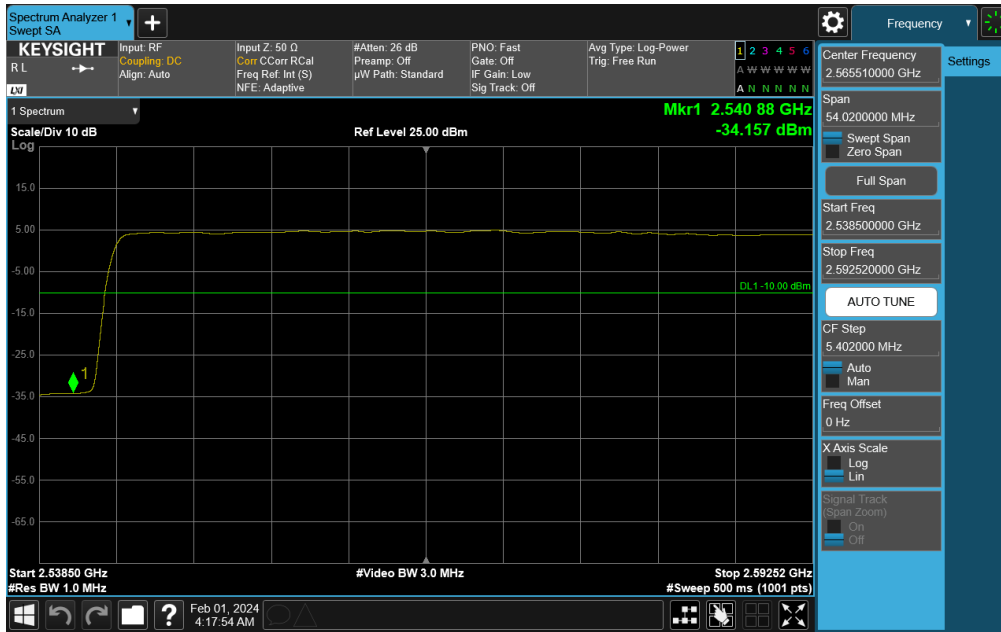


Plot 7-888. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

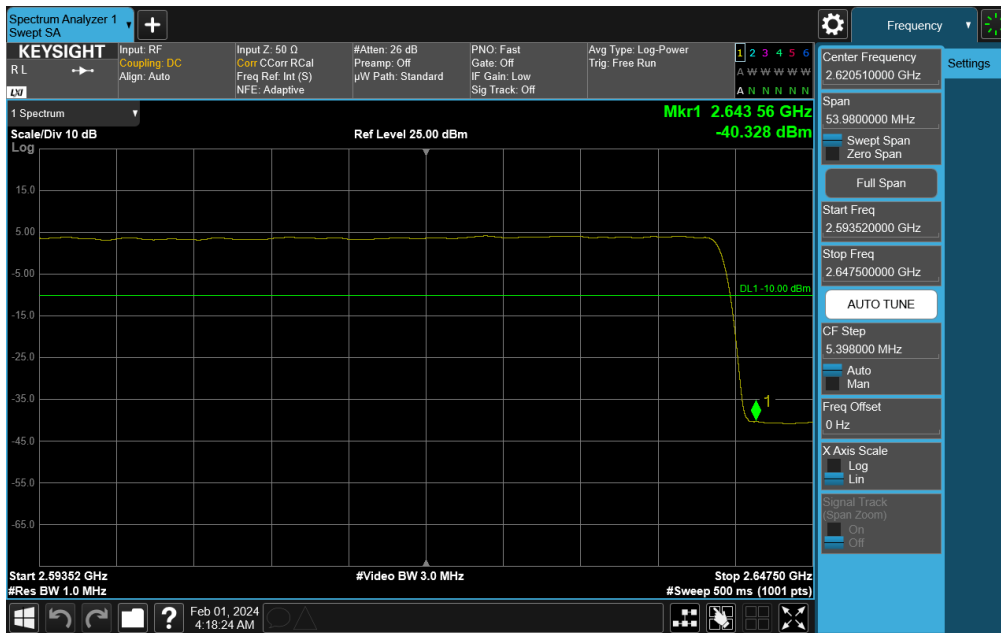


Plot 7-889. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 469 of 571

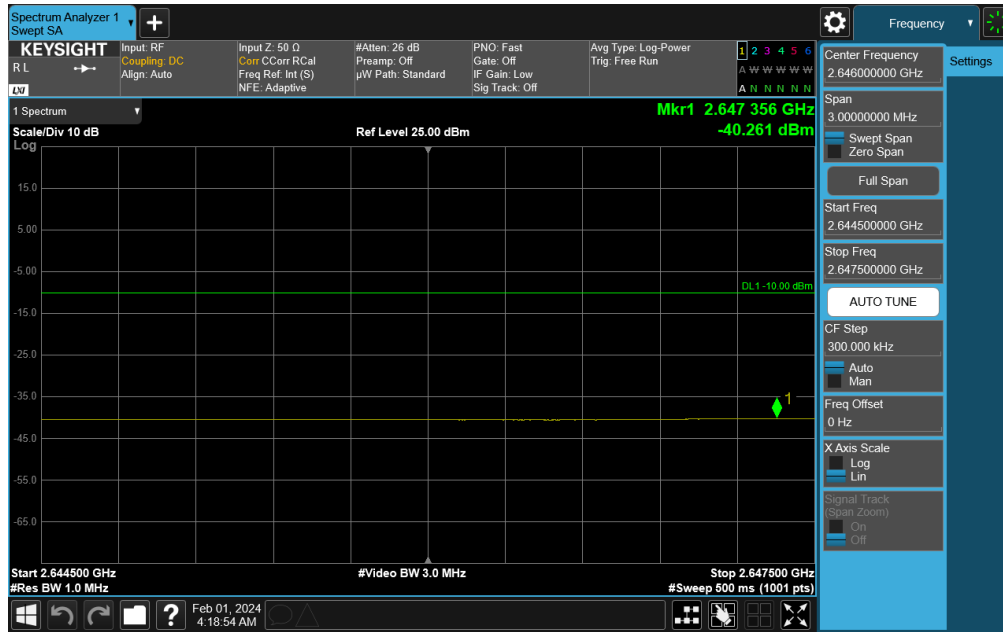


Plot 7-890. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

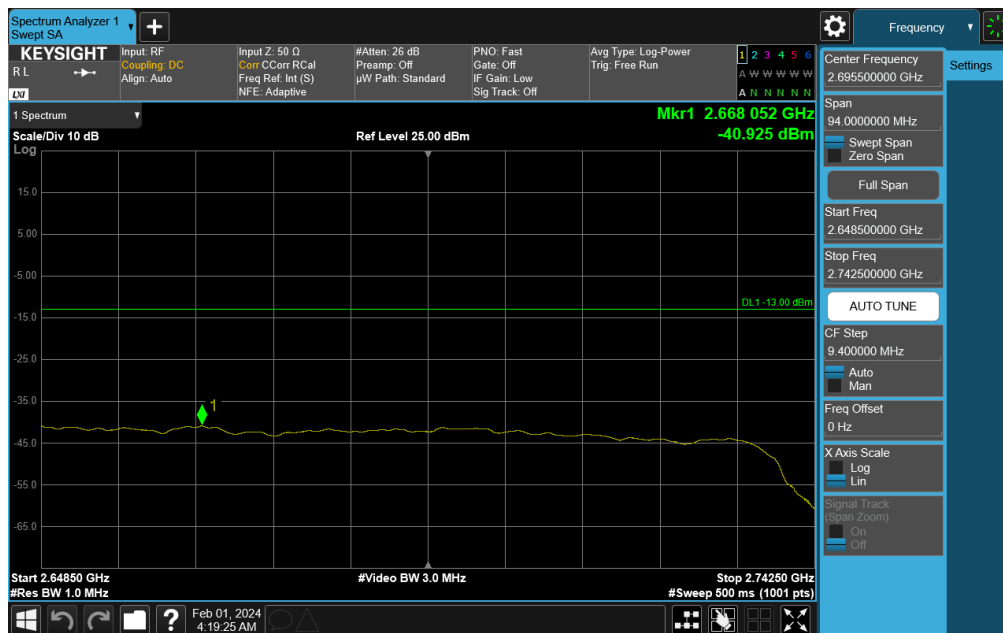


Plot 7-891. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 470 of 571

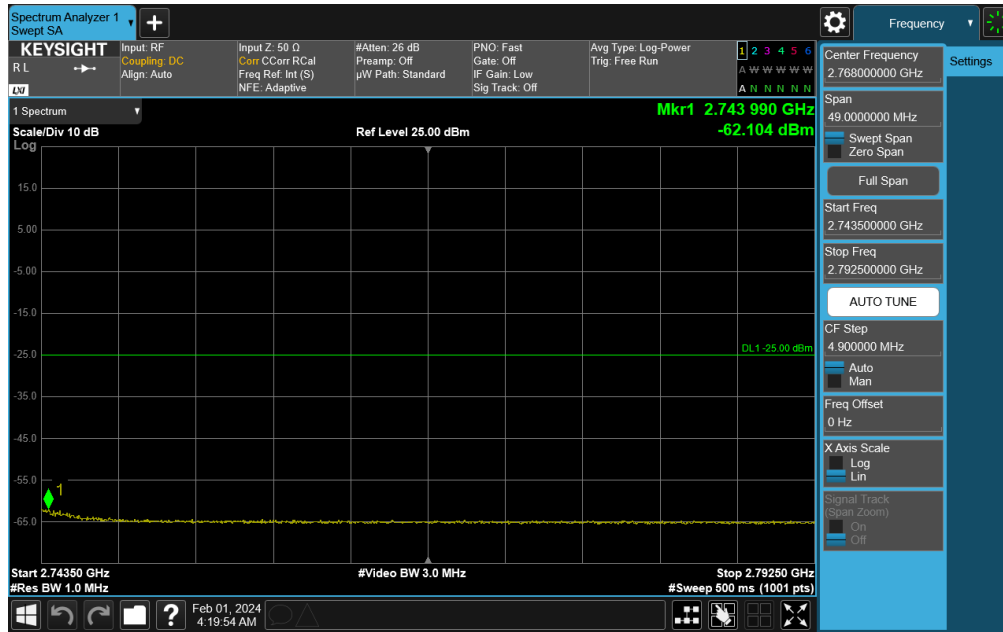


Plot 7-892. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

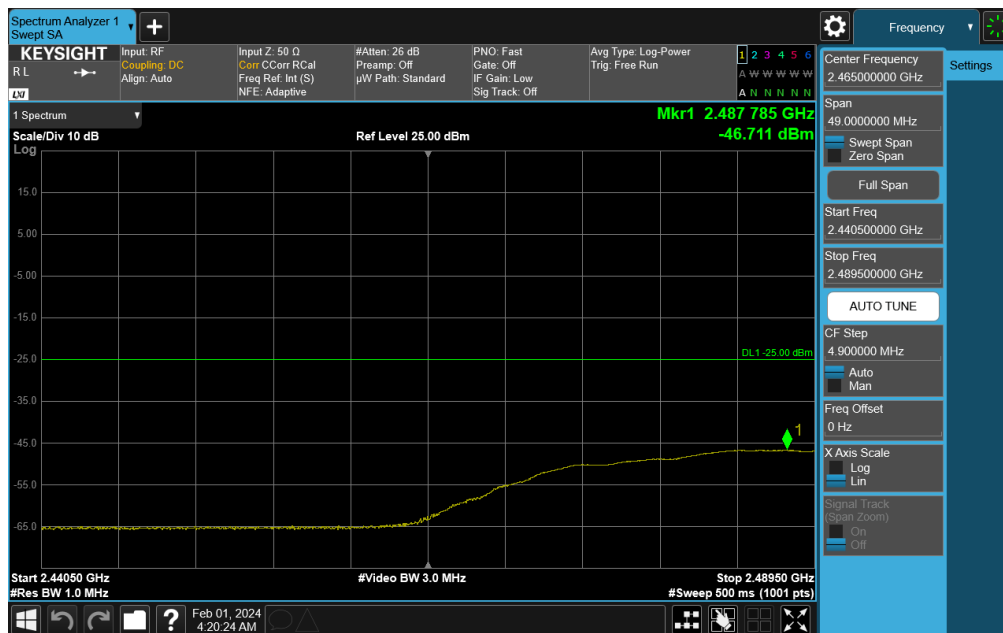


Plot 7-893. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 471 of 571

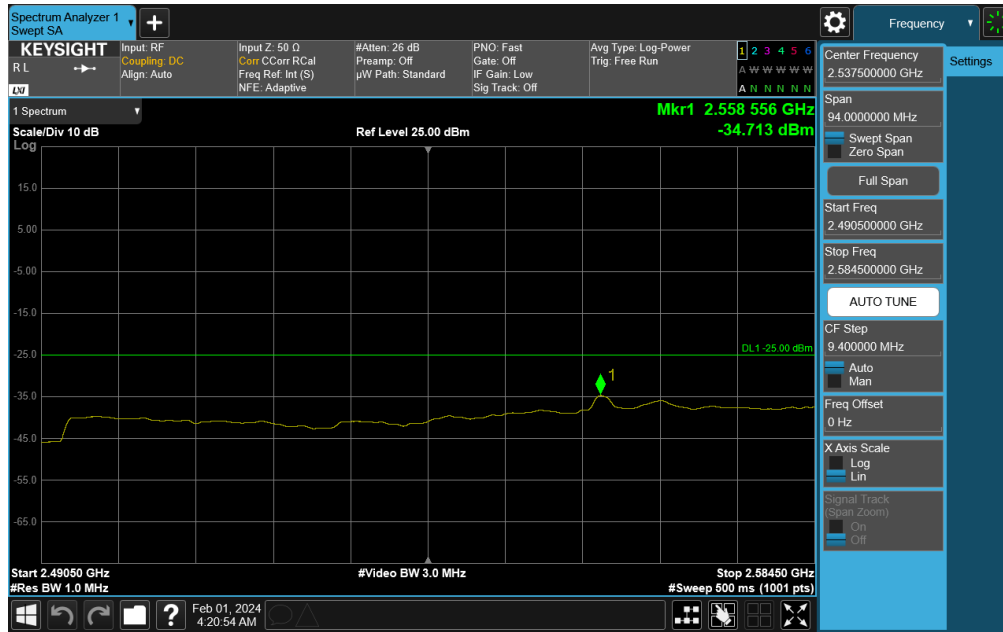


Plot 7-894. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

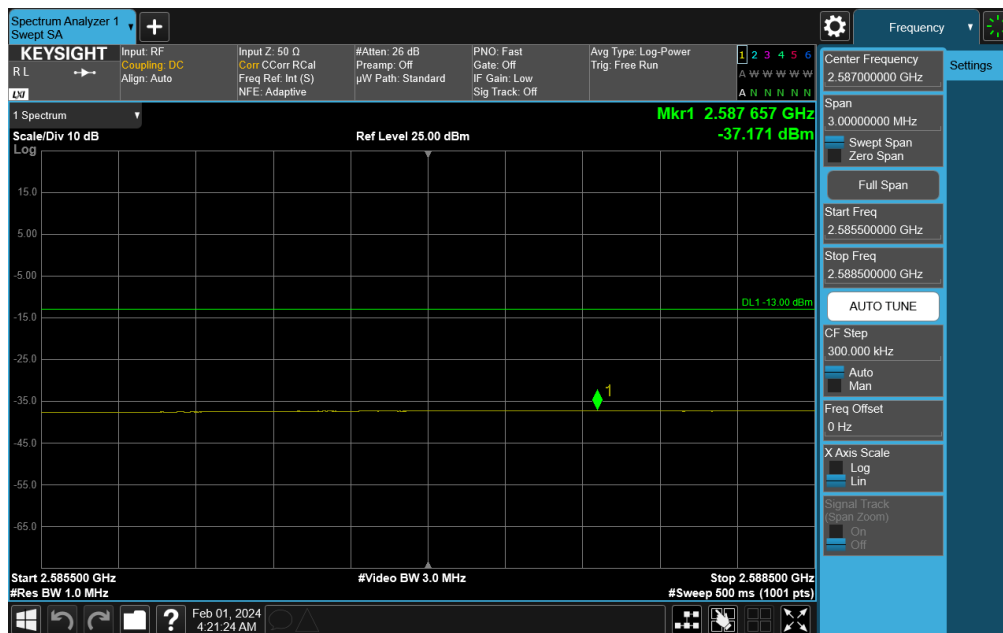


Plot 7-895. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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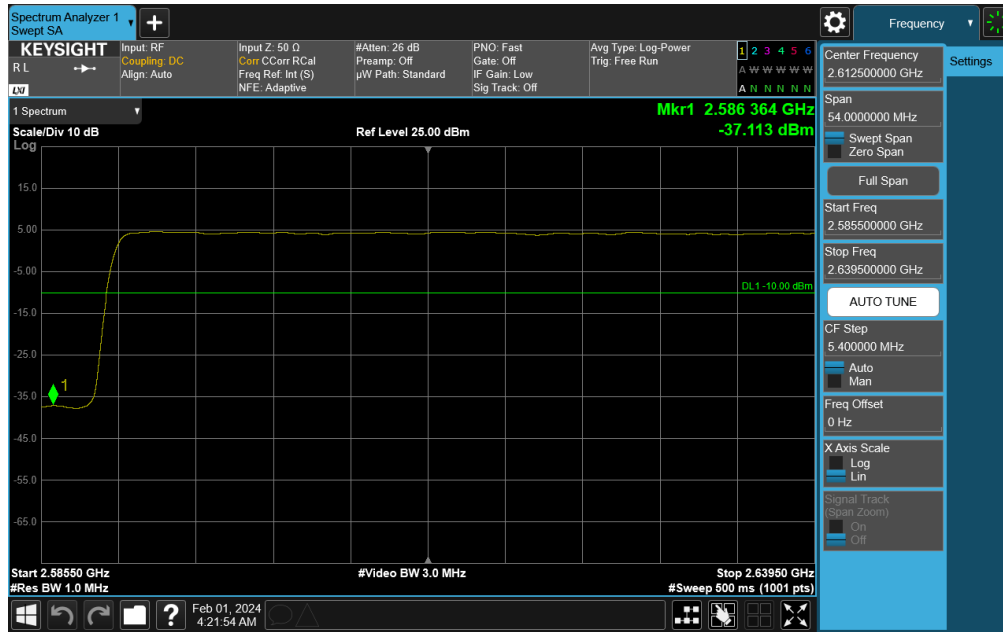


Plot 7-896. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

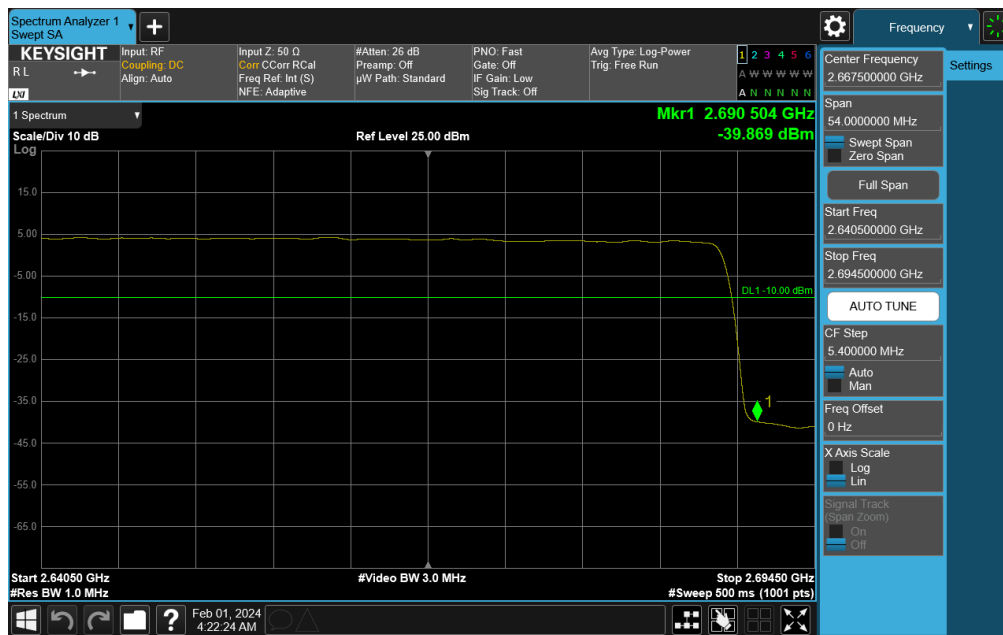


Plot 7-897. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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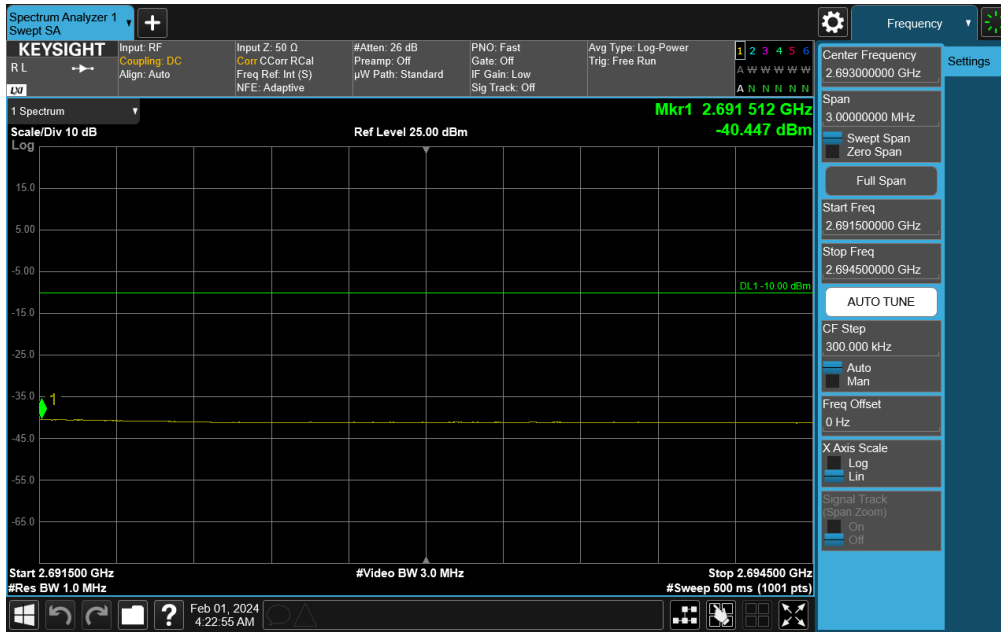


Plot 7-898. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

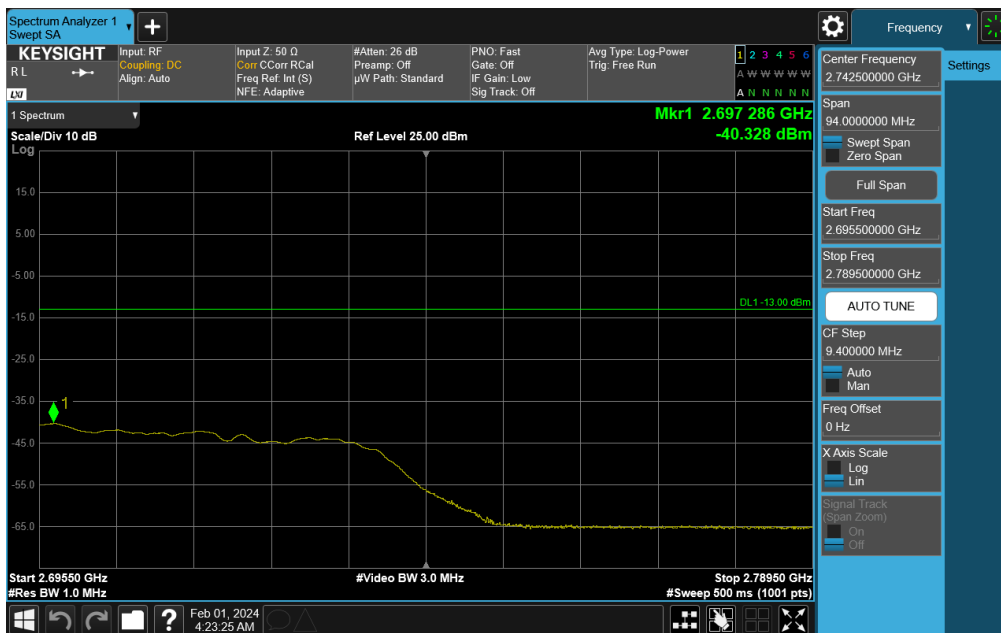


Plot 7-899. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 474 of 571

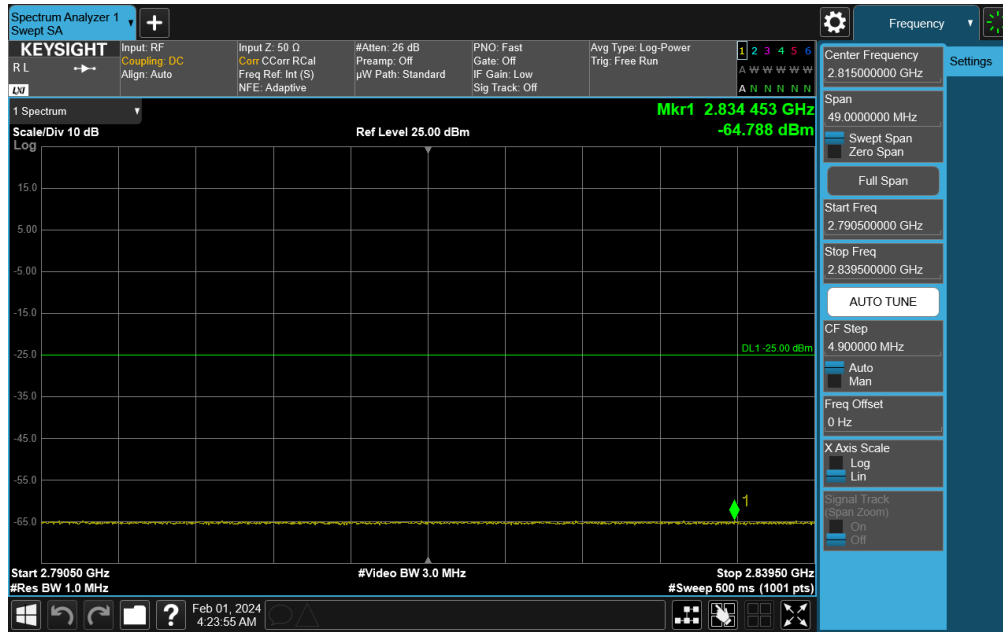


Plot 7-900. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



Plot 7-901. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

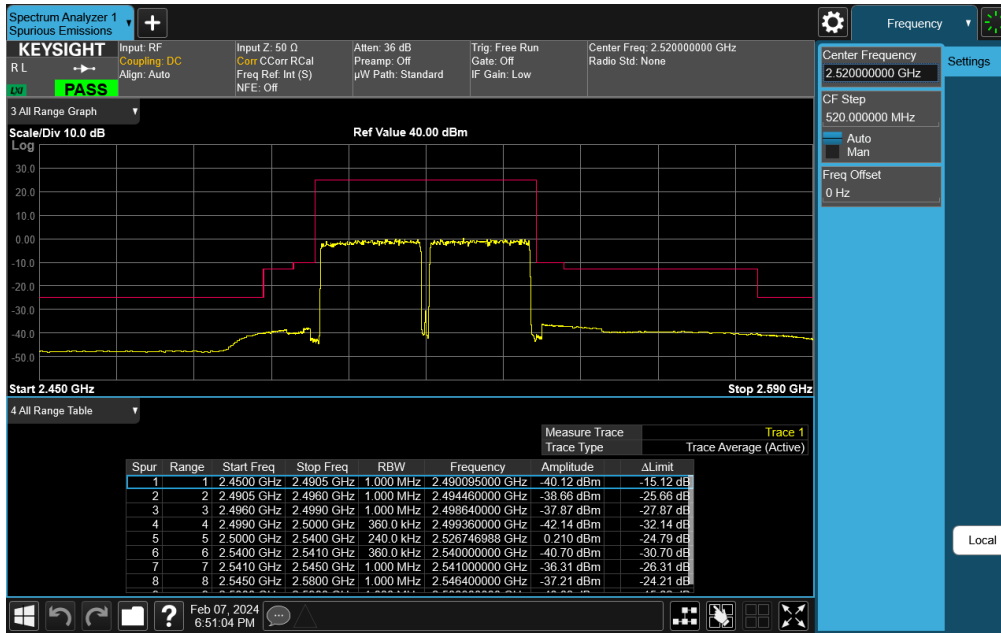
FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 475 of 571



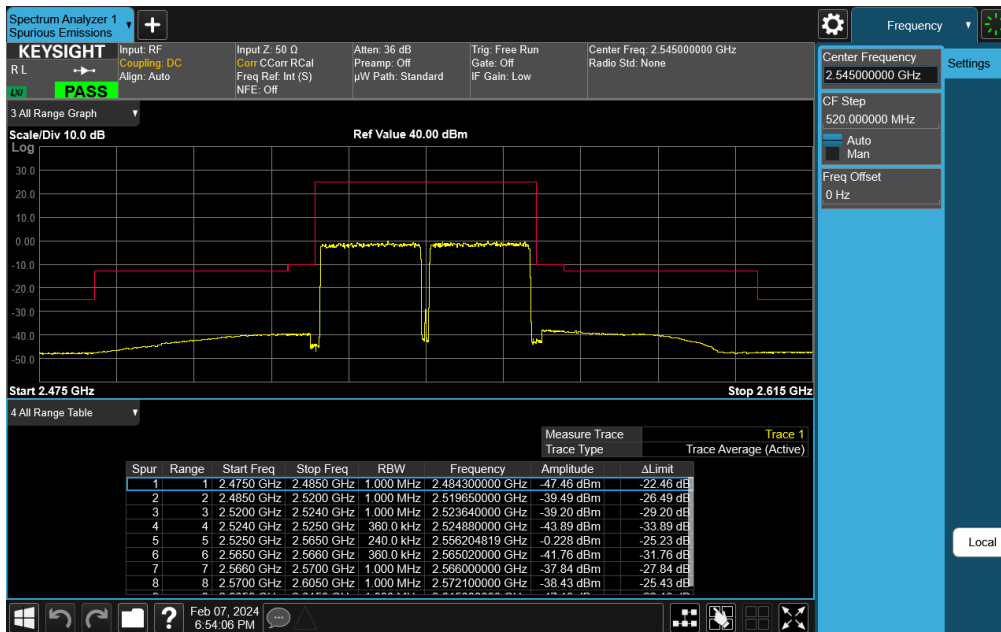
Plot 7-902. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 476 of 571

ULCA - LTE Band 7

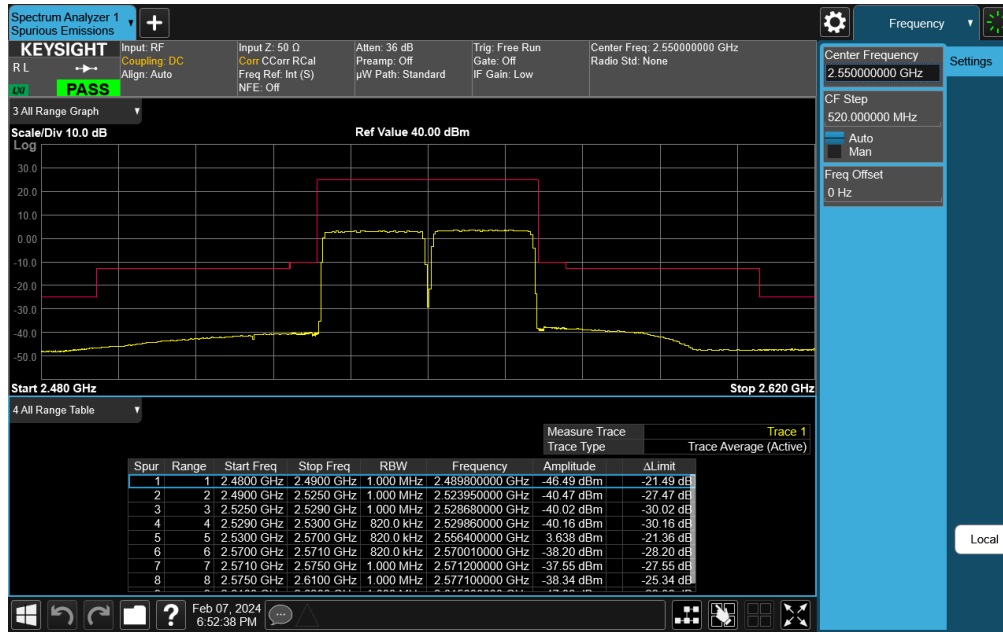


Plot 7-903. Lower ACP Plot (UCLA LTE B7 - (20+20)MHz QPSK - Full RB)



Plot 7-904. Middle ACP Plot (UCLA LTE B7 - (20+20)MHz QPSK - Full RB)

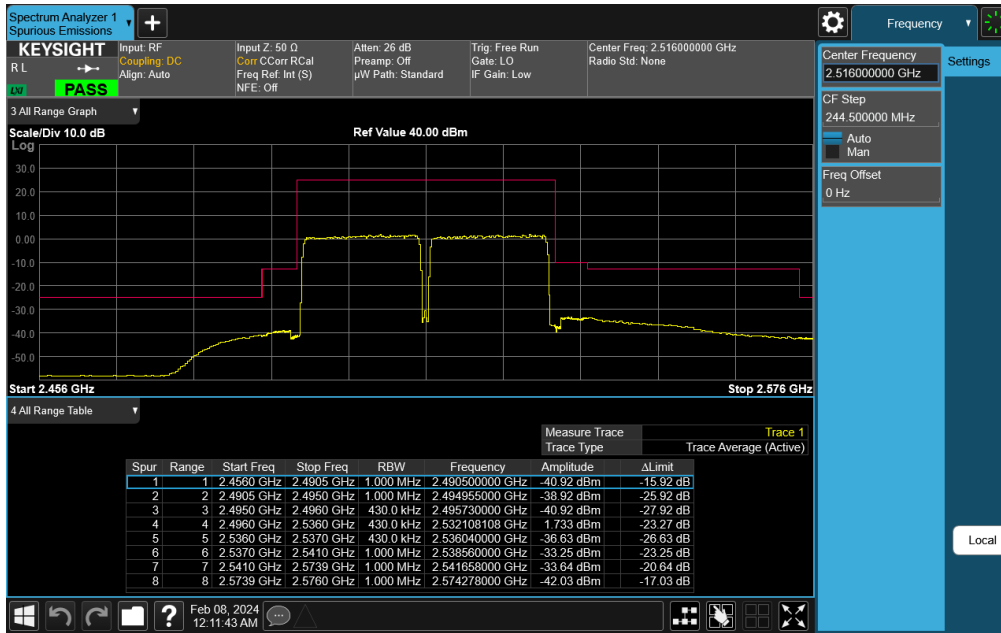
FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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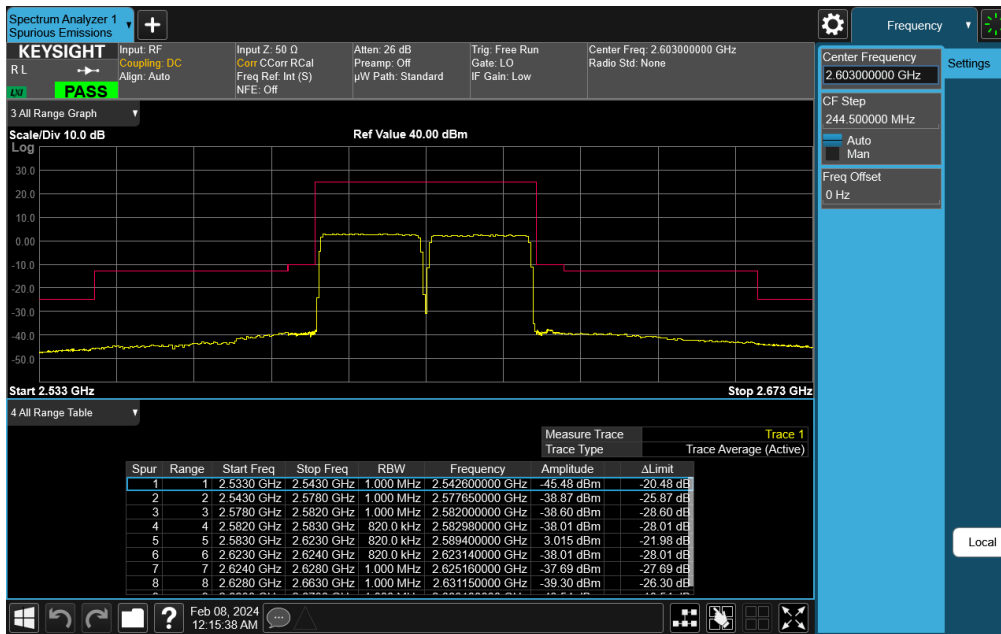
Plot 7-905. Upper ACP Plot (UCLA LTE B7 – (20+20)MHz QPSK - Full RB)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA - LTE Band 41

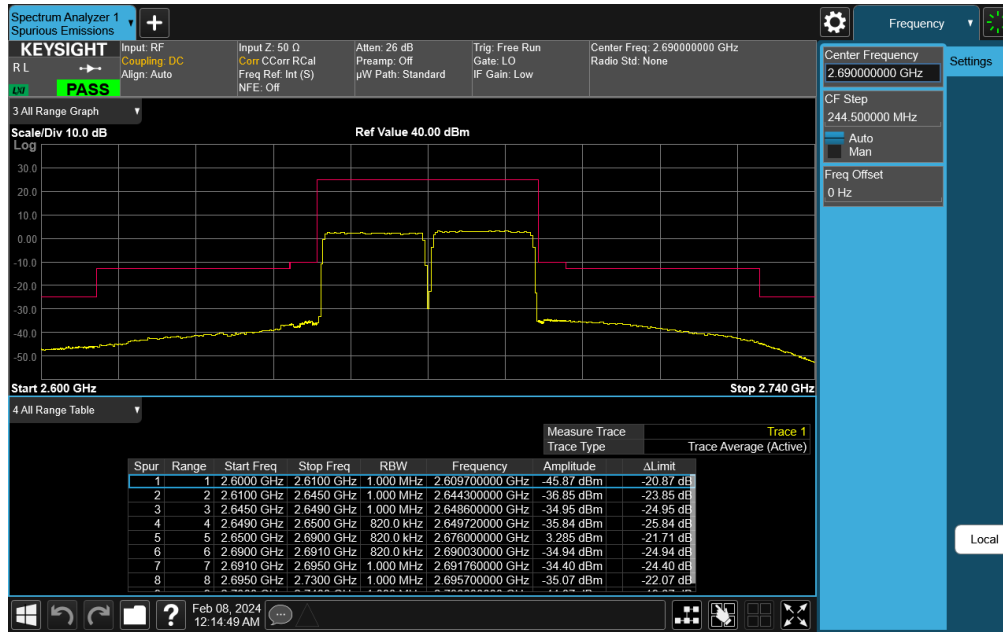


Plot 7-906. Lower ACP Plot (UCLA LTE B41 – (20+20)MHz QPSK - Full RB)



Plot 7-907. Middle ACP Plot (UCLA LTE B41 – (20+20)MHz QPSK - Full RB)

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Plot 7-908. Upper ACP Plot (UCLA LTE B41 – (20+20)MHz QPSK - Full RB)

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7.5 Additional Maximum Power Reduction (A-MPR)

§2.1046

Test Overview

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB 971168 D01 v03

Test Setup

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

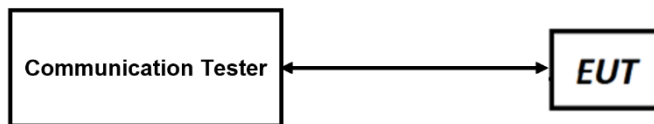



Figure 7-4. Conducted Power Measurement Setup

Test Notes

None.

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Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	RB Size	RB Offset	A-MPR [dB]	Modulation	MPR [dB]	Measured Power [dBm]	Lowest Typical Power [dBm]	Delta [dB]		
1	01	312	530	5	39675	2498.5	1	0	3	QPSK	0	26.07	24.7	1.37		
										16-QAM	1	24.43	23.7	0.73		
										64-QAM	2	23.15	22.7	0.45		
2				5	39675	2498.5	1	9	0	0	0	256-QAM	4	21.34	20.7	0.64
												QPSK	0	28.35	27.7	0.65
												16-QAM	1	27.39	26.7	0.69
3				10	39700	2501	1	0	5	0	5	64-QAM	2	27.34	25.7	1.64
												256-QAM	4	24.77	23.7	1.07
												QPSK	0	23.47	22.7	0.77
4				10	39700	2501	20	0	2	2	2	16-QAM	1	23.46	21.7	1.76
												64-QAM	2	22.22	20.7	1.52
												256-QAM	4	19.55	18.7	0.85
5				10	39700	2501	50	0	3	3	3	QPSK	0	26.20	25.7	0.50
												16-QAM	1	25.25	24.7	0.55
												64-QAM	2	24.23	23.7	0.53
6				10	39700	2501	25	20	1	1	1	256-QAM	4	22.19	21.7	0.49
												QPSK	0	25.30	24.7	0.60
												16-QAM	1	24.09	23.7	0.39
7	10	39700	2501	1	36	0	0	0	64-QAM	2	23.05	22.7	0.35			
									256-QAM	4	21.13	20.7	0.43			
									QPSK	0	27.12	26.7	0.42			
8	15	39725	2503.5	1	0	5	5	5	16-QAM	1	26.07	25.7	0.37			
									64-QAM	2	25.41	24.7	0.71			
									256-QAM	4	23.11	22.7	0.41			
9	15	39725	2503.5	20	0	2	2	2	QPSK	0	28.70	27.7	1.00			
									16-QAM	1	27.42	26.7	0.72			
									64-QAM	2	27.16	25.7	1.46			
10	15	39725	2503.5	75	0	4	4	4	256-QAM	4	24.69	23.7	0.99			
									QPSK	0	23.57	22.7	0.87			
									16-QAM	1	22.75	21.7	1.05			
11	15	39725	2503.5	50	15	3	3	3	64-QAM	2	21.26	20.7	0.56			
									256-QAM	4	19.46	18.7	0.76			
									QPSK	0	26.21	25.7	0.51			
12	15	39725	2503.5	1	60	0	0	0	16-QAM	1	25.03	24.7	0.33			
									64-QAM	2	23.99	23.7	0.29			
									256-QAM	4	22.03	21.7	0.33			
13	20	39750	2506	1	0	5	5	5	QPSK	0	24.13	23.7	0.43			
									16-QAM	1	23.25	22.7	0.55			
									64-QAM	2	22.14	21.7	0.44			
14	20	39750	2506	20	0	2	2	2	256-QAM	4	20.17	19.7	0.47			
									QPSK	0	25.19	24.7	0.49			
									16-QAM	1	24.10	23.7	0.40			
15	20	39750	2506	100	0	4	4	4	64-QAM	2	23.07	22.7	0.37			
									256-QAM	4	21.22	20.7	0.52			
									QPSK	0	28.60	27.7	0.90			
16	20	39750	2506	75	24	3	3	3	16-QAM	1	28.15	26.7	1.45			
									64-QAM	2	27.45	25.7	1.75			
									256-QAM	4	24.52	23.7	0.82			
17	20	39750	2506	1	77	0	0	0	QPSK	0	23.44	22.7	0.74			
									16-QAM	1	23.52	21.7	1.82			
									64-QAM	2	21.40	20.7	0.70			
18	01	311	490	5	39675	2498.5	1	0	3	256-QAM	4	19.59	18.7	0.89		
										QPSK	0	26.17	25.7	0.47		
										16-QAM	1	25.04	24.7	0.34		
19	01	001	01	5	39675	2498.5	1	0	0	64-QAM	2	24.18	23.7	0.48		
										256-QAM	4	22.14	21.7	0.44		
										QPSK	0	24.22	23.7	0.52		
19	01	001	01	5	39675	2498.5	1	0	0	16-QAM	1	23.10	22.7	0.40		
										64-QAM	2	22.08	21.7	0.38		
										256-QAM	4	20.23	19.7	0.53		
19	01	001	01	5	39675	2498.5	1	0	0	QPSK	0	25.12	24.7	0.42		
										16-QAM	1	24.08	23.7	0.38		
										64-QAM	2	23.25	22.7	0.55		
19	01	001	01	5	39675	2498.5	1	0	0	256-QAM	4	21.04	20.7	0.34		
										QPSK	0	28.70	27.7	1.00		
										16-QAM	1	28.33	26.7	1.63		
19	01	001	01	5	39675	2498.5	1	0	0	64-QAM	2	27.33	25.7	1.63		
										256-QAM	4	24.49	23.7	0.79		
										QPSK	0	25.45	24.7	0.75		
19	01	001	01	5	39675	2498.5	1	0	0	16-QAM	1	24.39	23.7	0.69		
										64-QAM	2	24.35	22.7	1.65		
										256-QAM	4	21.52	20.7	0.82		
19	01	001	01	5	39675	2498.5	1	0	0	QPSK	0	28.58	27.7	0.88		
										16-QAM	1	28.24	26.7	1.54		
										64-QAM	2	27.89	25.7	2.19		
19	01	001	01	5	39675	2498.5	1	0	0	256-QAM	4	24.31	23.7	0.61		

Table 7-2. A-MPR Conducted Power Measurements

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6 Radiated Power (EIRP)

§27.50(a)(3), §27.50(h)(2)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) 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:

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

Where:

EIRP = Equivalent Isotropic Radiated Power (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 dBi (EIRP)

Test Setup

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

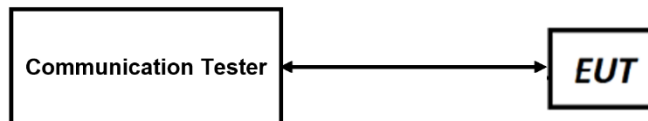




Figure 7-5. EIRP Measurement Setup

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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 Band 7 is only supported in this EUT while operating in Power Class 3.
5. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.
6. For ULCA, 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.

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7.6.1 Antenna 4 - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	-2.60	1 / 0	25.70	23.10	0.204	23.98	-0.88
		2310.0	-2.60	1 / 0	25.70	23.10	0.204	23.98	-0.88
		2312.5	-2.60	1 / 0	25.55	22.95	0.197	23.98	-1.03
	16-QAM	2310.0	-2.60	1 / 0	25.02	22.42	0.175	23.98	-1.56
	64-QAM	2312.5	-2.60	1 / 24	24.02	21.42	0.139	23.98	-2.56
	256-QAM	2312.5	-2.60	1 / 0	20.81	18.21	0.066	23.98	-5.77
10 MHz	QPSK	2310.0	-2.60	1 / 49	25.59	22.99	0.199	23.98	-0.99
	16-QAM	2310.0	-2.60	1 / 49	25.01	22.41	0.174	23.98	-1.57
	64-QAM	2310.0	-2.60	1 / 0	23.78	21.18	0.131	23.98	-2.80
	256-QAM	2310.0	-2.60	1 / 0	20.77	18.17	0.066	23.98	-5.81


Table 7-3. Antenna 4 EIRP Data (LTE Band 30)

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	-0.10	1 / 0	25.70	25.60	0.363	33.01	-7.41
		2535.0	-0.10	1 / 24	25.68	25.58	0.361	33.01	-7.43
		2567.5	-0.10	1 / 12	25.05	24.95	0.313	33.01	-8.06
	16-QAM	2535.0	-0.10	1 / 0	25.22	25.12	0.325	33.01	-7.89
	64-QAM	2535.0	-0.10	1 / 12	24.14	24.04	0.254	33.01	-8.97
	256-QAM	2535.0	-0.10	1 / 0	20.92	20.82	0.121	33.01	-12.19
10 MHz	QPSK	2505.0	-0.10	1 / 49	25.67	25.57	0.361	33.01	-7.44
		2535.0	-0.10	1 / 0	25.70	25.60	0.363	33.01	-7.41
		2565.0	-0.10	1 / 49	25.70	25.60	0.363	33.01	-7.41
	16-QAM	2565.0	-0.10	1 / 25	25.22	25.12	0.325	33.01	-7.89
	64-QAM	2535.0	-0.10	1 / 25	24.00	23.90	0.245	33.01	-9.11
	256-QAM	2565.0	-0.10	1 / 0	20.93	20.83	0.121	33.01	-12.18
15 MHz	QPSK	2507.5	-0.10	1 / 0	25.60	25.50	0.355	33.01	-7.51
		2535.0	-0.10	1 / 0	25.65	25.55	0.359	33.01	-7.46
		2562.5	-0.10	1 / 0	25.59	25.49	0.354	33.01	-7.52
	16-QAM	2562.5	-0.10	1 / 0	25.08	24.98	0.315	33.01	-8.03
	64-QAM	2507.5	-0.10	1 / 0	23.84	23.74	0.237	33.01	-9.27
	256-QAM	2562.5	-0.10	1 / 0	20.87	20.77	0.119	33.01	-12.24
20 MHz	QPSK	2510.0	-0.10	1 / 0	25.49	25.39	0.346	33.01	-7.62
		2535.0	-0.10	1 / 0	25.30	25.20	0.331	33.01	-7.81
		2560.0	-0.10	1 / 0	25.69	25.59	0.362	33.01	-7.42
	16-QAM	2535.0	-0.10	1 / 0	25.17	25.07	0.321	33.01	-7.94
	64-QAM	2560.0	-0.10	1 / 0	23.98	23.88	0.244	33.01	-9.13
	256-QAM	2560.0	-0.10	1 / 0	20.83	20.73	0.118	33.01	-12.28


Table 7-4. Antenna 4 EIRP Data (LTE Band 7)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.10	1 / 0	27.70	28.80	0.759	33.01	-4.21
		2593.0	1.10	1 / 0	27.24	28.34	0.682	33.01	-4.67
		2687.5	1.10	1 / 0	27.17	28.27	0.671	33.01	-4.74
	16-QAM	2498.5	1.10	1 / 0	26.67	27.77	0.598	33.01	-5.24
	64-QAM	2498.5	1.10	1 / 0	26.23	27.33	0.541	33.01	-5.68
256-QAM	2498.5	1.10	1 / 12	24.53	25.63	0.366	33.01	-7.38	
10 MHz	QPSK	2501.0	1.10	1 / 0	27.70	28.80	0.759	33.01	-4.21
		2593.0	1.10	1 / 0	27.28	28.38	0.689	33.01	-4.63
		2685.0	1.10	1 / 0	27.22	28.32	0.679	33.01	-4.69
	16-QAM	2501.0	1.10	1 / 25	26.64	27.74	0.594	33.01	-5.27
	64-QAM	2501.0	1.10	1 / 25	26.16	27.26	0.532	33.01	-5.75
	256-QAM	2501.0	1.10	1 / 0	24.55	25.65	0.367	33.01	-7.36
15 MHz	QPSK	2503.5	1.10	1 / 0	27.70	28.80	0.759	33.01	-4.21
		2593.0	1.10	1 / 0	27.25	28.35	0.684	33.01	-4.66
		2682.5	1.10	1 / 0	27.11	28.21	0.662	33.01	-4.80
	16-QAM	2682.5	1.10	1 / 0	26.66	27.76	0.597	33.01	-5.25
	64-QAM	2503.5	1.10	1 / 0	26.13	27.23	0.528	33.01	-5.78
256-QAM	2503.5	1.10	1 / 0	24.56	25.66	0.368	33.01	-7.35	
20 MHz	QPSK	2506.0	1.10	1 / 0	27.70	28.80	0.759	33.01	-4.21
		2593.0	1.10	1 / 99	27.22	28.32	0.679	33.01	-4.69
		2680.0	1.10	1 / 99	27.37	28.47	0.703	33.01	-4.54
	16-QAM	2506.0	1.10	1 / 0	26.63	27.73	0.593	33.01	-5.28
	64-QAM	2506.0	1.10	1 / 0	26.10	27.20	0.525	33.01	-5.81
	256-QAM	2506.0	1.10	1 / 0	24.54	25.64	0.366	33.01	-7.37


Table 7-5. Antenna 4 EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.10	1 / 0	25.70	26.80	0.479	33.01	-6.21
		2593.0	1.10	1 / 0	25.23	26.33	0.430	33.01	-6.68
		2687.5	1.10	1 / 0	25.15	26.25	0.422	33.01	-6.76
	16-QAM	2498.5	1.10	1 / 0	24.55	25.65	0.367	33.01	-7.36
	64-QAM	2498.5	1.10	1 / 12	23.74	24.84	0.305	33.01	-8.17
256-QAM	2498.5	1.10	1 / 0	21.55	22.65	0.184	33.01	-10.36	
10 MHz	QPSK	2501.0	1.10	1 / 0	25.69	26.79	0.478	33.01	-6.22
		2593.0	1.10	1 / 0	25.30	26.40	0.437	33.01	-6.61
		2685.0	1.10	1 / 0	25.27	26.37	0.434	33.01	-6.64
	16-QAM	2501.0	1.10	1 / 49	24.80	25.90	0.389	33.01	-7.11
	64-QAM	2501.0	1.10	1 / 0	23.67	24.77	0.300	33.01	-8.24
256-QAM	2501.0	1.10	1 / 0	21.50	22.60	0.182	33.01	-10.41	
15 MHz	QPSK	2503.5	1.10	1 / 0	25.60	26.70	0.468	33.01	-6.31
		2593.0	1.10	1 / 0	25.41	26.51	0.448	33.01	-6.50
		2682.5	1.10	1 / 74	25.30	26.40	0.437	33.01	-6.61
	16-QAM	2503.5	1.10	1 / 0	24.31	25.41	0.348	33.01	-7.60
	64-QAM	2503.5	1.10	1 / 0	23.42	24.52	0.283	33.01	-8.49
256-QAM	2503.5	1.10	1 / 0	21.22	22.32	0.171	33.01	-10.69	
20 MHz	QPSK	2506.0	1.10	1 / 0	25.45	26.55	0.452	33.01	-6.46
		2593.0	1.10	1 / 99	25.62	26.72	0.470	33.01	-6.29
		2680.0	1.10	1 / 50	25.61	26.71	0.469	33.01	-6.30
	16-QAM	2506.0	1.10	1 / 0	24.88	25.98	0.396	33.01	-7.03
	64-QAM	2506.0	1.10	1 / 0	23.45	24.55	0.285	33.01	-8.46
256-QAM	2506.0	1.10	1 / 0	21.30	22.40	0.174	33.01	-10.61	


Table 7-6. Antenna 4 EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	-2.60	1 / 23	25.60	23.00	0.199	23.98	-0.98
		2310.0	-2.60	1 / 23	25.61	23.01	0.200	23.98	-0.97
		2312.5	-2.60	1 / 12	25.64	23.04	0.202	23.98	-0.94
	QPSK	2307.5	-2.60	1 / 23	25.59	22.99	0.199	23.98	-0.99
		2310.0	-2.60	1 / 12	25.70	23.10	0.204	23.98	-0.88
		2312.5	-2.60	1 / 1	25.63	23.03	0.201	23.98	-0.95
	16-QAM	2310.0	-2.60	1 / 12	24.95	22.35	0.172	23.98	-1.63
64-QAM	2312.5	-2.60	1 / 1	23.87	21.27	0.134	23.98	-2.71	
256-QAM	2312.5	-2.60	1 / 23	21.97	19.37	0.086	23.98	-4.61	
10 MHz	π/2 BPSK	2310.0	-2.60	1 / 25	25.66	23.06	0.202	23.98	-0.92
	QPSK	2310.0	-2.60	1 / 1	25.70	23.10	0.204	23.98	-0.88
	16-QAM	2310.0	-2.60	1 / 50	24.86	22.26	0.168	23.98	-1.72
	64-QAM	2310.0	-2.60	1 / 25	23.71	21.11	0.129	23.98	-2.87
	256-QAM	2310.0	-2.60	1 / 50	21.77	19.17	0.083	23.98	-4.81

Table 7-7. Antenna 4 EIRP Data (NR Band n30)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 489 of 571

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	-0.10	1 / 23	25.62	25.52	0.356	33.01	-7.49
		2535.0	-0.10	1 / 23	25.45	25.35	0.343	33.01	-7.66
		2567.5	-0.10	1 / 12	25.52	25.42	0.349	33.01	-7.59
	QPSK	2502.5	-0.10	1 / 12	25.62	25.52	0.356	33.01	-7.49
		2535.0	-0.10	1 / 23	25.59	25.49	0.354	33.01	-7.52
		2567.5	-0.10	1 / 23	25.59	25.49	0.354	33.01	-7.52
		16-QAM	2502.5	-0.10	1 / 23	24.84	24.74	0.298	33.01
64-QAM	2502.5	-0.10	1 / 12	23.73	23.63	0.231	33.01	-9.38	
256-QAM	2502.5	-0.10	1 / 12	21.68	21.58	0.144	33.01	-11.43	
10 MHz	π/2 BPSK	2505.0	-0.10	1 / 50	25.63	25.53	0.357	33.01	-7.48
		2535.0	-0.10	1 / 50	25.45	25.35	0.342	33.01	-7.66
		2565.0	-0.10	1 / 50	25.47	25.37	0.345	33.01	-7.64
	QPSK	2505.0	-0.10	1 / 50	25.59	25.49	0.354	33.01	-7.52
		2535.0	-0.10	1 / 50	25.43	25.33	0.342	33.01	-7.68
		2565.0	-0.10	1 / 50	25.38	25.28	0.337	33.01	-7.73
		16-QAM	2535.0	-0.10	1 / 50	24.76	24.66	0.292	33.01
64-QAM	2565.0	-0.10	1 / 1	23.65	23.55	0.226	33.01	-9.46	
256-QAM	2505.0	-0.10	1 / 25	21.60	21.50	0.141	33.01	-11.51	
15 MHz	π/2 BPSK	2507.5	-0.10	1 / 1	25.57	25.47	0.352	33.01	-7.54
		2535.0	-0.10	1 / 1	25.50	25.40	0.346	33.01	-7.61
		2562.5	-0.10	1 / 77	25.47	25.37	0.345	33.01	-7.64
	QPSK	2507.5	-0.10	1 / 1	25.61	25.51	0.355	33.01	-7.50
		2535.0	-0.10	1 / 1	25.51	25.41	0.347	33.01	-7.60
		2562.5	-0.10	1 / 77	25.56	25.46	0.352	33.01	-7.55
		16-QAM	2535.0	-0.10	1 / 77	24.99	24.89	0.308	33.01
64-QAM	2507.5	-0.10	1 / 39	23.91	23.81	0.240	33.01	-9.20	
256-QAM	2507.5	-0.10	1 / 1	21.79	21.69	0.148	33.01	-11.32	
20 MHz	π/2 BPSK	2510.0	-0.10	1 / 104	25.46	25.36	0.343	33.01	-7.65
		2535.0	-0.10	1 / 1	25.35	25.25	0.335	33.01	-7.76
		2560.0	-0.10	1 / 104	25.41	25.31	0.340	33.01	-7.70
	QPSK	2510.0	-0.10	1 / 104	25.61	25.51	0.356	33.01	-7.50
		2535.0	-0.10	1 / 1	25.40	25.30	0.339	33.01	-7.71
		2560.0	-0.10	1 / 104	25.42	25.32	0.340	33.01	-7.69
		16-QAM	2510.0	-0.10	1 / 52	24.63	24.53	0.284	33.01
64-QAM	2510.0	-0.10	1 / 52	23.74	23.64	0.231	33.01	-9.37	
256-QAM	2510.0	-0.10	1 / 1	21.64	21.54	0.143	33.01	-11.47	
25 MHz	π/2 BPSK	2512.5	-0.10	1 / 66	25.56	25.46	0.351	33.01	-7.55
		2535.0	-0.10	1 / 1	25.47	25.37	0.344	33.01	-7.64
		2567.5	-0.10	1 / 1	25.51	25.41	0.347	33.01	-7.60
	QPSK	2512.5	-0.10	1 / 66	25.59	25.49	0.354	33.01	-7.52
		2535.0	-0.10	1 / 1	25.53	25.43	0.349	33.01	-7.58
		2567.5	-0.10	1 / 1	25.47	25.37	0.344	33.01	-7.64
		16-QAM	2512.5	-0.10	1 / 66	24.74	24.64	0.291	33.01
64-QAM	2512.5	-0.10	1 / 1	23.68	23.58	0.228	33.01	-9.44	
256-QAM	2535.0	-0.10	1 / 1	21.76	21.66	0.147	33.01	-11.35	
30 MHz	π/2 BPSK	2515.0	-0.10	1 / 1	25.54	25.44	0.350	33.01	-7.57
		2535.0	-0.10	1 / 1	25.54	25.44	0.350	33.01	-7.57
		2555.0	-0.10	1 / 1	25.70	25.60	0.363	33.01	-7.41
	QPSK	2515.0	-0.10	1 / 79	25.63	25.53	0.357	33.01	-7.48
		2535.0	-0.10	1 / 1	25.47	25.37	0.344	33.01	-7.64
		2555.0	-0.10	1 / 158	25.42	25.32	0.341	33.01	-7.69
		16-QAM	2515.0	-0.10	1 / 158	24.89	24.79	0.301	33.01
64-QAM	2515.0	-0.10	1 / 79	23.63	23.53	0.225	33.01	-9.48	
256-QAM	2535.0	-0.10	1 / 1	21.60	21.50	0.141	33.01	-11.51	
35 MHz	π/2 BPSK	2517.5	-0.10	1 / 1	25.56	25.46	0.351	33.01	-7.55
		2535.0	-0.10	1 / 1	25.45	25.35	0.343	33.01	-7.66
		2562.5	-0.10	1 / 186	25.43	25.33	0.341	33.01	-7.68
	QPSK	2517.5	-0.10	1 / 1	25.55	25.45	0.350	33.01	-7.56
		2535.0	-0.10	1 / 1	25.45	25.35	0.343	33.01	-7.66
		2562.5	-0.10	1 / 186	25.46	25.36	0.344	33.01	-7.65
		16-QAM	2517.5	-0.10	1 / 93	24.65	24.55	0.285	33.01
64-QAM	2552.5	-0.10	1 / 1	23.70	23.60	0.229	33.01	-9.41	
256-QAM	2535.0	-0.10	1 / 1	21.61	21.51	0.142	33.01	-11.50	
40 MHz	π/2 BPSK	2520.0	-0.10	1 / 1	25.50	25.40	0.347	33.01	-7.61
		2535.0	-0.10	1 / 1	25.45	25.35	0.343	33.01	-7.66
		2550.0	-0.10	1 / 107	25.44	25.34	0.342	33.01	-7.67
	QPSK	2520.0	-0.10	1 / 107	25.59	25.49	0.354	33.01	-7.52
		2535.0	-0.10	1 / 214	25.57	25.47	0.352	33.01	-7.54
		2550.0	-0.10	1 / 107	25.48	25.38	0.346	33.01	-7.63
		16-QAM	2520.0	-0.10	1 / 214	24.58	24.48	0.281	33.01
64-QAM	2535.0	-0.10	1 / 1	23.61	23.51	0.225	33.01	-9.50	
256-QAM	2535.0	-0.10	1 / 1	21.79	21.69	0.148	33.01	-11.32	

Table 7-8. Antenna 4 EIRP Data (NR Band n7)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	25.62	-0.10	25.52	0.356	33.01	-7.49
				21100	2535.0	1	99		21298	2554.8	1	0	25.58	-0.10	25.48	0.353	33.01	-7.53
				21350	2560.0	1	0		21152	2540.2	1	99	25.56	-0.10	25.46	0.352	33.01	-7.55
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	24.55	-0.10	24.45	0.279	33.01	-8.56
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	23.52	-0.10	23.42	0.220	33.01	-9.59
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	23.51	-0.10	23.41	0.219	33.01	-9.60
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	21.51	-0.10	21.41	0.138	33.01	-11.60

Table 7-11. Antenna 4 EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41 (PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	27.45	1.10	28.55	0.716	33.01	-4.46
				40620	2593.0	1	99		40818	2612.8	1	0	27.03	1.10	28.13	0.650	33.01	-4.88
				41490	2680.0	1	0		41292	2660.2	1	99	27.12	1.10	28.22	0.664	33.01	-4.79
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	25.58	1.10	26.68	0.466	33.01	-6.33
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	24.54	1.10	25.64	0.366	33.01	-7.37
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	24.49	1.10	25.59	0.362	33.01	-7.42
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	22.64	1.10	23.74	0.237	33.01	-9.27

Table 7-12. Antenna 4 EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41 (PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.38	1.10	26.48	0.445	33.01	-6.53
				40620	2593.0	1	99		40818	2612.8	1	0	25.21	1.10	26.31	0.428	33.01	-6.70
				41490	2680.0	1	0		41292	2660.2	1	99	25.27	1.10	26.37	0.434	33.01	-6.64
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	23.83	1.10	24.93	0.311	33.01	-8.08
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	22.83	1.10	23.93	0.247	33.01	-9.08
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	22.70	1.10	23.80	0.240	33.01	-9.21
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	20.78	1.10	21.88	0.154	33.01	-11.13

Table 7-13. Antenna 4 EIRP Data (ULCA LTE Band 41 (PC3))


FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.2 Antenna 1b - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	0.00	1 / 0	22.20	22.20	0.166	23.98	-1.78
		2310.0	0.00	1 / 0	22.20	22.20	0.166	23.98	-1.78
		2312.5	0.00	1 / 0	22.18	22.18	0.165	23.98	-1.80
	16-QAM	2310.0	0.00	1 / 0	21.59	21.59	0.144	23.98	-2.39
	64-QAM	2312.5	0.00	1 / 0	20.56	20.56	0.114	23.98	-3.42
	256-QAM	2312.5	0.00	1 / 0	17.44	17.44	0.055	23.98	-6.54
10 MHz	QPSK	2310.0	0.00	1 / 25	22.11	22.11	0.163	23.98	-1.87
	16-QAM	2310.0	0.00	1 / 49	21.63	21.63	0.146	23.98	-2.35
	64-QAM	2310.0	0.00	1 / 49	20.49	20.49	0.112	23.98	-3.49
	256-QAM	2310.0	0.00	1 / 0	17.39	17.39	0.055	23.98	-6.59

Table 7-14. Antenna 1b EIRP Data (LTE Band 30)


FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 494 of 571

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LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	-0.60	1 / 0	22.20	21.60	0.145	33.01	-11.41
		2535.0	-0.60	1 / 0	22.00	21.40	0.138	33.01	-11.61
		2567.5	-0.60	1 / 0	22.06	21.46	0.140	33.01	-11.55
	16-QAM	2567.5	-0.60	1 / 0	21.44	20.84	0.121	33.01	-12.17
	64-QAM	2567.5	-0.60	1 / 24	20.43	19.83	0.096	33.01	-13.18
	256-QAM	2567.5	-0.60	1 / 0	19.07	18.47	0.070	33.01	-14.54
10 MHz	QPSK	2505.0	-0.60	1 / 25	22.08	21.48	0.141	33.01	-11.53
		2535.0	-0.60	1 / 25	22.13	21.53	0.142	33.01	-11.48
		2565.0	-0.60	1 / 0	22.20	21.60	0.145	33.01	-11.41
	16-QAM	2565.0	-0.60	1 / 49	21.47	20.87	0.122	33.01	-12.14
	64-QAM	2505.0	-0.60	1 / 0	20.46	19.86	0.097	33.01	-13.15
	256-QAM	2565.0	-0.60	1 / 0	19.04	18.44	0.070	33.01	-14.57
15 MHz	QPSK	2507.5	-0.60	1 / 0	22.20	21.60	0.145	33.01	-11.41
		2535.0	-0.60	1 / 0	22.03	21.43	0.139	33.01	-11.58
		2562.5	-0.60	1 / 0	22.01	21.41	0.138	33.01	-11.60
	16-QAM	2507.5	-0.60	1 / 0	21.46	20.86	0.122	33.01	-12.15
	64-QAM	2507.5	-0.60	1 / 0	20.47	19.87	0.097	33.01	-13.14
	256-QAM	2562.5	-0.60	1 / 0	19.04	18.44	0.070	33.01	-14.57
20 MHz	QPSK	2510.0	-0.60	1 / 0	22.10	21.50	0.141	33.01	-11.51
		2535.0	-0.60	1 / 0	21.67	21.07	0.128	33.01	-11.94
		2560.0	-0.60	1 / 0	22.20	21.60	0.145	33.01	-11.41
	16-QAM	2560.0	-0.60	1 / 0	21.41	20.81	0.121	33.01	-12.20
	64-QAM	2560.0	-0.60	1 / 0	20.49	19.89	0.097	33.01	-13.12
	256-QAM	2560.0	-0.60	1 / 99	19.11	18.51	0.071	33.01	-14.50


Table 7-15. Antenna 1b EIRP Data (LTE Band 7)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 495 of 571

LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-1.30	1 / 0	28.68	27.38	0.547	33.01	-5.63
		2593.0	-1.30	1 / 0	28.70	27.40	0.550	33.01	-5.61
		2687.5	-1.30	1 / 0	28.51	27.21	0.526	33.01	-5.80
	16-QAM	2498.5	-1.30	1 / 0	27.67	26.37	0.434	33.01	-6.64
	64-QAM	2593.0	-1.30	1 / 0	27.23	25.93	0.392	33.01	-7.08
	256-QAM	2593.0	-1.30	1 / 0	25.47	24.17	0.261	33.01	-8.84
10 MHz	QPSK	2501.0	-1.30	1 / 0	28.63	27.33	0.541	33.01	-5.68
		2593.0	-1.30	1 / 0	28.67	27.37	0.546	33.01	-5.64
		2685.0	-1.30	1 / 0	28.53	27.23	0.528	33.01	-5.78
	16-QAM	2501.0	-1.30	1 / 0	27.64	26.34	0.431	33.01	-6.67
	64-QAM	2593.0	-1.30	1 / 0	27.05	25.75	0.376	33.01	-7.26
	256-QAM	2593.0	-1.30	1 / 0	25.57	24.27	0.267	33.01	-8.74
15 MHz	QPSK	2503.5	-1.30	1 / 0	28.69	27.39	0.548	33.01	-5.62
		2593.0	-1.30	1 / 0	28.52	27.22	0.527	33.01	-5.79
		2682.5	-1.30	1 / 0	28.52	27.22	0.527	33.01	-5.79
	16-QAM	2593.0	-1.30	1 / 0	27.66	26.36	0.433	33.01	-6.65
	64-QAM	2503.5	-1.30	1 / 0	27.22	25.92	0.391	33.01	-7.09
	256-QAM	2593.0	-1.30	1 / 0	25.53	24.23	0.265	33.01	-8.78
20 MHz	QPSK	2506.0	-1.30	1 / 0	28.70	27.40	0.550	33.01	-5.61
		2593.0	-1.30	1 / 0	28.63	27.33	0.541	33.01	-5.68
		2680.0	-1.30	1 / 99	28.68	27.38	0.547	33.01	-5.63
	16-QAM	2506.0	-1.30	1 / 0	27.63	26.33	0.430	33.01	-6.68
	64-QAM	2680.0	-1.30	1 / 0	27.23	25.93	0.392	33.01	-7.08
	256-QAM	2506.0	-1.30	1 / 0	25.54	24.24	0.265	33.01	-8.77


Table 7-16. Antenna 1b EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 496 of 571

LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-1.30	1 / 0	25.70	24.40	0.275	33.01	-8.61
		2593.0	-1.30	1 / 0	25.60	24.30	0.269	33.01	-8.71
		2687.5	-1.30	1 / 0	25.44	24.14	0.259	33.01	-8.87
	16-QAM	2687.5	-1.30	1 / 12	24.51	23.21	0.209	33.01	-9.80
	64-QAM	2498.5	-1.30	1 / 12	23.64	22.34	0.171	33.01	-10.67
	256-QAM	2593.0	-1.30	1 / 12	21.36	20.06	0.101	33.01	-12.95
10 MHz	QPSK	2501.0	-1.30	1 / 0	25.70	24.40	0.275	33.01	-8.61
		2593.0	-1.30	1 / 0	25.59	24.29	0.269	33.01	-8.72
		2685.0	-1.30	1 / 0	25.50	24.20	0.263	33.01	-8.81
	16-QAM	2593.0	-1.30	1 / 0	24.70	23.40	0.219	33.01	-9.61
	64-QAM	2685.0	-1.30	1 / 0	23.64	22.34	0.171	33.01	-10.67
	256-QAM	2501.0	-1.30	1 / 0	21.44	20.14	0.103	33.01	-12.87
15 MHz	QPSK	2503.5	-1.30	1 / 0	25.44	24.14	0.259	33.01	-8.87
		2593.0	-1.30	1 / 0	25.38	24.08	0.256	33.01	-8.93
		2682.5	-1.30	1 / 0	25.31	24.01	0.252	33.01	-9.00
	16-QAM	2682.5	-1.30	1 / 74	24.45	23.15	0.207	33.01	-9.86
	64-QAM	2682.5	-1.30	1 / 74	23.55	22.25	0.168	33.01	-10.76
	256-QAM	2503.5	-1.30	1 / 74	21.26	19.96	0.099	33.01	-13.05
20 MHz	QPSK	2506.0	-1.30	1 / 0	25.46	24.16	0.261	33.01	-8.85
		2593.0	-1.30	1 / 99	25.36	24.06	0.255	33.01	-8.95
		2680.0	-1.30	1 / 99	25.34	24.04	0.254	33.01	-8.97
	16-QAM	2506.0	-1.30	1 / 0	24.46	23.16	0.207	33.01	-9.85
	64-QAM	2506.0	-1.30	1 / 0	23.43	22.13	0.163	33.01	-10.88
	256-QAM	2680.0	-1.30	1 / 0	20.49	19.19	0.083	33.01	-13.82


Table 7-17. Antenna 1b EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 497 of 571

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	0.00	1 / 12	22.13	22.13	0.163	23.98	-1.85
		2310.0	0.00	1 / 12	22.09	22.09	0.162	23.98	-1.88
		2312.5	0.00	1 / 12	22.15	22.15	0.164	23.98	-1.83
	QPSK	2307.5	0.00	1 / 12	22.11	22.11	0.163	23.98	-1.86
		2310.0	0.00	1 / 12	22.16	22.16	0.165	23.98	-1.82
		2312.5	0.00	1 / 1	22.20	22.20	0.166	23.98	-1.78
	16-QAM	2310.0	0.00	1 / 12	21.35	21.35	0.137	23.98	-2.63
64-QAM	2310.0	0.00	1 / 1	20.35	20.35	0.108	23.98	-3.63	
256-QAM	2312.5	0.00	1 / 1	18.31	18.31	0.068	23.98	-5.66	
10 MHz	π/2 BPSK	2310.0	0.00	1 / 25	22.19	22.19	0.165	23.98	-1.79
	QPSK	2310.0	0.00	1 / 25	22.20	22.20	0.166	23.98	-1.78
	16-QAM	2310.0	0.00	1 / 25	21.38	21.38	0.137	23.98	-2.60
	64-QAM	2310.0	0.00	1 / 50	19.67	19.67	0.093	23.98	-4.31
	256-QAM	2310.0	0.00	1 / 1	17.57	17.57	0.057	23.98	-6.41

Table 7-18. Antenna 1b EIRP Data (NR Band n30)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 498 of 571

ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	22.07	-0.60	21.47	0.140	33.01	-11.54																																															
				21100	2535.0	1	99		21298	2554.8	1	0	22.13	-0.60	21.53	0.142	33.01	-11.48																																															
				21350	2560.0	1	0		21152	2540.2	1	99	22.10	-0.60	21.50	0.141	33.01	-11.51																																															
			16-QAM	21100	2535	100	0	16-QAM	21298	2554.8	100	0	16-QAM	21298	2554.8	100	0	19.25	-0.60	18.65	0.073	33.01	-14.36																																										
																								64-QAM	21100	2535	100	0	64-QAM	21298	2554.8	100	0	64-QAM	21298	2554.8	100	0	19.24	-0.60	18.64	0.073	33.01	-14.37																					
																																													256-QAM	21100	2535	100	0	256-QAM	21298	2554.8	100	0	256-QAM	21298	2554.8	100	0	17.26	-0.60	16.66	0.046	33.01	-16.35

Table 7-22. Antenna 1b EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41 (PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	28.46	-1.30	27.16	0.520	33.01	-5.85																																															
				40620	2593.0	1	99		40818	2612.8	1	0	28.41	-1.30	27.11	0.514	33.01	-5.90																																															
				41490	2680.0	1	0		41292	2660.2	1	99	28.38	-1.30	27.08	0.511	33.01	-5.93																																															
			16-QAM	39750	2510	100	0	16-QAM	39988	2529.8	100	0	16-QAM	39988	2529.8	100	0	27.35	-1.30	26.05	0.403	33.01	-6.96																																										
																								64-QAM	39750	2510	100	0	64-QAM	39988	2529.8	100	0	64-QAM	39988	2529.8	100	0	26.16	-1.30	24.86	0.306	33.01	-8.15																					
																																													256-QAM	39750	2510	100	0	256-QAM	39988	2529.8	100	0	256-QAM	39988	2529.8	100	0	24.53	-1.30	23.23	0.210	33.01	-9.78

Table 7-23. Antenna 1b EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41 (PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.52	-1.30	24.22	0.264	33.01	-8.79																																																																				
				40620	2593.0	1	99		40818	2612.8	1	0	25.49	-1.30	24.19	0.262	33.01	-8.82																																																																				
				41490	2680.0	1	0		41292	2660.2	1	99	25.30	-1.30	24.00	0.251	33.01	-9.01																																																																				
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	16-QAM	39948	2525.8	100	0	24.01	-1.30	22.71	0.187	33.01	-10.30																																																															
																								64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	64-QAM	39948	2525.8	100	0	22.96	-1.30	21.66	0.147	33.01	-11.35																																										
																																													256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	256-QAM	39948	2525.8	100	0	23.07	-1.30	21.77	0.150	33.01	-11.24																					
																																																																		256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	256-QAM	39948	2525.8	100	0	21.02	-1.30	19.72	0.094	33.01	-13.29

Table 7-24. Antenna 1b EIRP Data (ULCA LTE Band 41 (PC3))


FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.3 Antenna 3b - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	0.30	1 / 12	23.19	23.49	0.223	23.98	-0.49
		2310.0	0.30	1 / 0	23.07	23.37	0.217	23.98	-0.61
		2312.5	0.30	1 / 24	23.08	23.38	0.218	23.98	-0.60
	16-QAM	2310.0	0.30	1 / 0	22.17	22.47	0.177	23.98	-1.51
	64-QAM	2310.0	0.30	1 / 12	21.14	21.44	0.139	23.98	-2.54
	256-QAM	2307.5	0.30	1 / 24	18.28	18.58	0.072	23.98	-5.40
10 MHz	QPSK	2310.0	0.30	1 / 25	23.12	23.42	0.220	23.98	-0.56
	16-QAM	2310.0	0.30	1 / 0	22.18	22.48	0.177	23.98	-1.50
	64-QAM	2310.0	0.30	1 / 49	21.06	21.36	0.137	23.98	-2.62
	256-QAM	2310.0	0.30	1 / 49	18.28	18.58	0.072	23.98	-5.40


Table 7-25. Antenna 3b EIRP Data (LTE Band 30)

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device		Page 503 of 571

LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	-1.30	1 / 0	24.70	23.40	0.219	33.01	-9.61
		2535.0	-1.30	1 / 0	24.43	23.13	0.206	33.01	-9.88
		2567.5	-1.30	1 / 0	24.68	23.38	0.218	33.01	-9.63
	16-QAM	2502.5	-1.30	1 / 24	24.04	22.74	0.188	33.01	-10.27
	64-QAM	2502.5	-1.30	1 / 24	23.01	21.71	0.148	33.01	-11.30
	256-QAM	2502.5	-1.30	1 / 24	19.93	18.63	0.073	33.01	-14.38
10 MHz	QPSK	2505.0	-1.30	1 / 0	24.70	23.40	0.219	33.01	-9.61
		2535.0	-1.30	1 / 25	24.39	23.09	0.204	33.01	-9.92
		2565.0	-1.30	1 / 49	24.40	23.10	0.204	33.01	-9.91
	16-QAM	2505.0	-1.30	1 / 49	24.04	22.74	0.188	33.01	-10.27
	64-QAM	2505.0	-1.30	1 / 0	22.81	21.51	0.142	33.01	-11.50
	256-QAM	2505.0	-1.30	1 / 0	19.88	18.58	0.072	33.01	-14.43
15 MHz	QPSK	2507.5	-1.30	1 / 0	24.56	23.26	0.212	33.01	-9.75
		2535.0	-1.30	1 / 0	24.26	22.96	0.198	33.01	-10.05
		2562.5	-1.30	1 / 0	24.27	22.97	0.198	33.01	-10.04
	16-QAM	2507.5	-1.30	1 / 37	23.91	22.61	0.182	33.01	-10.40
	64-QAM	2507.5	-1.30	1 / 0	22.86	21.56	0.143	33.01	-11.45
	256-QAM	2507.5	-1.30	1 / 0	19.82	18.52	0.071	33.01	-14.49
20 MHz	QPSK	2510.0	-1.30	1 / 0	24.53	23.23	0.210	33.01	-9.78
		2535.0	-1.30	1 / 99	24.31	23.01	0.200	33.01	-10.00
		2560.0	-1.30	1 / 0	24.38	23.08	0.203	33.01	-9.93
	16-QAM	2560.0	-1.30	1 / 0	24.08	22.78	0.190	33.01	-10.23
	64-QAM	2510.0	-1.30	1 / 0	22.87	21.57	0.144	33.01	-11.44
	256-QAM	2510.0	-1.30	1 / 0	19.66	18.36	0.069	33.01	-14.65


Table 7-26. Antenna 3b EIRP Data (LTE Band 7)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device
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LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-2.00	1 / 0	26.70	24.70	0.295	33.01	-8.31
		2593.0	-2.00	1 / 0	26.44	24.44	0.278	33.01	-8.57
		2687.5	-2.00	1 / 0	25.94	23.94	0.248	33.01	-9.07
	16-QAM	2687.5	-2.00	1 / 24	25.67	23.67	0.233	33.01	-9.34
	64-QAM	2593.0	-2.00	1 / 12	24.67	22.67	0.185	33.01	-10.34
	256-QAM	2687.5	-2.00	1 / 24	21.78	19.78	0.095	33.01	-13.23
10 MHz	QPSK	2501.0	-2.00	1 / 0	26.70	24.70	0.295	33.01	-8.31
		2593.0	-2.00	1 / 0	26.47	24.47	0.280	33.01	-8.54
		2685.0	-2.00	1 / 0	26.06	24.06	0.255	33.01	-8.95
	16-QAM	2501.0	-2.00	1 / 0	25.71	23.71	0.235	33.01	-9.30
	64-QAM	2593.0	-2.00	1 / 0	24.77	22.77	0.189	33.01	-10.24
	256-QAM	2593.0	-2.00	1 / 0	21.75	19.75	0.094	33.01	-13.26
15 MHz	QPSK	2503.5	-2.00	1 / 0	26.70	24.70	0.295	33.01	-8.31
		2593.0	-2.00	1 / 0	26.50	24.50	0.282	33.01	-8.51
		2682.5	-2.00	1 / 0	26.08	24.08	0.256	33.01	-8.93
	16-QAM	2503.5	-2.00	1 / 0	25.71	23.71	0.235	33.01	-9.30
	64-QAM	2682.5	-2.00	1 / 74	24.66	22.66	0.185	33.01	-10.35
	256-QAM	2682.5	-2.00	1 / 74	21.74	19.74	0.094	33.01	-13.27
20 MHz	QPSK	2506.0	-2.00	1 / 0	26.70	24.70	0.295	33.01	-8.31
		2593.0	-2.00	1 / 0	26.46	24.46	0.279	33.01	-8.55
		2680.0	-2.00	1 / 99	26.29	24.29	0.269	33.01	-8.72
	16-QAM	2593.0	-2.00	1 / 99	25.79	23.79	0.239	33.01	-9.22
	64-QAM	2506.0	-2.00	1 / 0	24.69	22.69	0.186	33.01	-10.32
	256-QAM	2593.0	-2.00	1 / 50	21.78	19.78	0.095	33.01	-13.23


Table 7-27. Antenna 3b EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-2.00	1 / 0	25.70	23.70	0.234	33.01	-9.31
		2593.0	-2.00	1 / 0	25.44	23.44	0.221	33.01	-9.57
		2687.5	-2.00	1 / 0	24.94	22.94	0.197	33.01	-10.07
	16-QAM	2498.5	-2.00	1 / 12	24.47	22.47	0.177	33.01	-10.54
	64-QAM	2498.5	-2.00	1 / 24	23.74	21.74	0.149	33.01	-11.27
256-QAM	2498.5	-2.00	1 / 24	21.39	19.39	0.087	33.01	-13.62	
10 MHz	QPSK	2501.0	-2.00	1 / 0	25.66	23.66	0.232	33.01	-9.35
		2593.0	-2.00	1 / 0	25.43	23.43	0.220	33.01	-9.58
		2685.0	-2.00	1 / 25	25.33	23.33	0.215	33.01	-9.68
	16-QAM	2501.0	-2.00	1 / 0	24.84	22.84	0.192	33.01	-10.17
	64-QAM	2501.0	-2.00	1 / 0	23.63	21.63	0.146	33.01	-11.38
256-QAM	2501.0	-2.00	1 / 0	21.37	19.37	0.086	33.01	-13.64	
15 MHz	QPSK	2503.5	-2.00	1 / 0	25.51	23.51	0.224	33.01	-9.50
		2593.0	-2.00	1 / 0	25.31	23.31	0.214	33.01	-9.70
		2682.5	-2.00	1 / 0	25.39	23.39	0.218	33.01	-9.62
	16-QAM	2503.5	-2.00	1 / 0	24.17	22.17	0.165	33.01	-10.84
	64-QAM	2503.5	-2.00	1 / 0	23.41	21.41	0.138	33.01	-11.60
256-QAM	2503.5	-2.00	1 / 0	21.41	19.41	0.087	33.01	-13.60	
20 MHz	QPSK	2506.0	-2.00	1 / 0	25.46	23.46	0.222	33.01	-9.55
		2593.0	-2.00	1 / 0	25.22	23.22	0.210	33.01	-9.79
		2680.0	-2.00	1 / 99	25.50	23.50	0.224	33.01	-9.51
	16-QAM	2506.0	-2.00	1 / 0	24.88	22.88	0.194	33.01	-10.13
	64-QAM	2506.0	-2.00	1 / 0	23.59	21.59	0.144	33.01	-11.42
256-QAM	2506.0	-2.00	1 / 0	21.26	19.26	0.084	33.01	-13.75	


Table 7-28. Antenna 3b EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	0.30	1 / 1	23.14	23.44	0.221	23.98	-0.54
		2310.0	0.30	1 / 12	23.08	23.38	0.218	23.98	-0.60
		2312.5	0.30	1 / 12	23.18	23.48	0.223	23.98	-0.50
	QPSK	2307.5	0.30	1 / 12	23.18	23.48	0.223	23.98	-0.50
		2310.0	0.30	1 / 12	23.20	23.50	0.224	23.98	-0.48
		2312.5	0.30	1 / 12	23.12	23.42	0.220	23.98	-0.56
	16-QAM	2310.0	0.30	1 / 23	22.29	22.59	0.182	23.98	-1.39
64-QAM	2310.0	0.30	1 / 1	21.23	21.53	0.142	23.98	-2.45	
256-QAM	2310.0	0.30	1 / 12	18.31	18.61	0.073	23.98	-5.37	
10 MHz	π/2 BPSK	2310.0	0.30	1 / 1	23.20	23.50	0.224	23.98	-0.48
	QPSK	2310.0	0.30	1 / 1	23.15	23.45	0.221	23.98	-0.53
	16-QAM	2310.0	0.30	1 / 1	21.99	22.29	0.169	23.98	-1.69
	64-QAM	2310.0	0.30	1 / 25	21.20	21.50	0.141	23.98	-2.48
	256-QAM	2310.0	0.30	1 / 50	18.23	18.53	0.071	23.98	-5.45

Table 7-29. Antenna 3b EIRP Data (NR Band n30)

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device		Page 507 of 571

ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	24.64	-1.30	23.34	0.216	33.01	-9.67
				21100	2535.0	1	99		21298	2554.8	1	0	24.52	-1.30	23.22	0.210	33.01	-9.79
				21350	2560.0	1	0		21152	2540.2	1	99	24.54	-1.30	23.24	0.211	33.01	-9.77
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	22.73	-1.30	21.43	0.138	33.01	-11.58
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	21.70	-1.30	20.40	0.110	33.01	-12.61
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	21.72	-1.30	20.42	0.110	33.01	-12.59
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	19.72	-1.30	18.42	0.070	33.01	-14.59

Table 7-33. Antenna 3b EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41 (PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	26.53	-2.00	24.53	0.284	33.01	-8.48
				40620	2593.0	1	99		40818	2612.8	1	0	26.36	-2.00	24.36	0.273	33.01	-8.65
				41490	2680.0	1	0		41292	2660.2	1	99	26.08	-2.00	24.08	0.256	33.01	-8.93
			QPSK	39790	2510	100	0	QPSK	39988	2529.8	100	0	25.45	-2.00	23.45	0.221	33.01	-9.56
			16-QAM	39790	2510	100	0	16-QAM	39988	2529.8	100	0	24.66	-2.00	22.66	0.185	33.01	-10.35
			64-QAM	39790	2510	100	0	64-QAM	39988	2529.8	100	0	24.37	-2.00	22.37	0.173	33.01	-10.64
			256-QAM	39790	2510	100	0	256-QAM	39988	2529.8	100	0	22.12	-2.00	20.12	0.103	33.01	-12.89

Table 7-34. Antenna 3b EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41 (PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.28	-2.00	23.28	0.213	33.01	-9.73
				40620	2593.0	1	99		40818	2612.8	1	0	24.77	-2.00	22.77	0.189	33.01	-10.24
				41490	2680.0	1	0		41292	2660.2	1	99	24.92	-2.00	22.92	0.196	33.01	-10.09
			QPSK	39790	2510	100	0	QPSK	39988	2529.8	100	0	23.46	-2.00	21.46	0.140	33.01	-11.55
			16-QAM	39790	2510	100	0	16-QAM	39988	2529.8	100	0	22.47	-2.00	20.47	0.111	33.01	-12.54
			64-QAM	39790	2510	100	0	64-QAM	39988	2529.8	100	0	22.55	-2.00	20.55	0.114	33.01	-12.46
			256-QAM	39790	2510	100	0	256-QAM	39988	2529.8	100	0	20.39	-2.00	18.39	0.069	33.01	-14.62

Table 7-35. Antenna 3b EIRP Data (ULCA LTE Band 41 (PC3))


FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.4 Antenna 2 - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	2.00	1 / 24	21.43	23.43	0.220	23.98	-0.55
		2310.0	2.00	1 / 0	21.45	23.45	0.221	23.98	-0.53
		2312.5	2.00	1 / 24	21.15	23.15	0.207	23.98	-0.83
	16-QAM	2310.0	2.00	1 / 12	20.41	22.41	0.174	23.98	-1.57
	64-QAM	2307.5	2.00	1 / 24	19.41	21.41	0.138	23.98	-2.57
	256-QAM	2307.5	2.00	1 / 24	16.55	18.55	0.072	23.98	-5.43
10 MHz	QPSK	2310.0	2.00	1 / 49	21.45	23.45	0.221	23.98	-0.53
	16-QAM	2310.0	2.00	1 / 25	20.42	22.42	0.175	23.98	-1.56
	64-QAM	2310.0	2.00	1 / 25	19.42	21.42	0.139	23.98	-2.56
	256-QAM	2310.0	2.00	1 / 25	16.19	18.19	0.066	23.98	-5.79


Table 7-36. Antenna 2 EIRP Data (LTE Band 30)

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	2.50	1 / 24	22.67	25.17	0.329	33.01	-7.84
		2535.0	2.50	1 / 0	22.51	25.01	0.317	33.01	-8.00
		2567.5	2.50	1 / 0	22.35	24.85	0.305	33.01	-8.16
	16-QAM	2502.5	2.50	1 / 0	21.97	24.47	0.280	33.01	-8.54
	64-QAM	2502.5	2.50	1 / 0	20.98	23.48	0.223	33.01	-9.53
	256-QAM	2502.5	2.50	1 / 0	17.87	20.37	0.109	33.01	-12.64
10 MHz	QPSK	2505.0	2.50	1 / 49	22.56	25.06	0.321	33.01	-7.95
		2535.0	2.50	1 / 49	22.46	24.96	0.313	33.01	-8.05
		2565.0	2.50	1 / 0	22.37	24.87	0.307	33.01	-8.14
	16-QAM	2565.0	2.50	1 / 49	22.01	24.51	0.282	33.01	-8.50
	64-QAM	2505.0	2.50	1 / 0	20.85	23.35	0.216	33.01	-9.66
	256-QAM	2505.0	2.50	1 / 0	17.72	20.22	0.105	33.01	-12.79
15 MHz	QPSK	2507.5	2.50	1 / 0	22.48	24.98	0.315	33.01	-8.03
		2535.0	2.50	1 / 74	22.36	24.86	0.306	33.01	-8.15
		2562.5	2.50	1 / 0	22.24	24.74	0.298	33.01	-8.27
	16-QAM	2507.5	2.50	1 / 0	21.88	24.38	0.274	33.01	-8.63
	64-QAM	2507.5	2.50	1 / 0	20.69	23.19	0.208	33.01	-9.82
	256-QAM	2507.5	2.50	1 / 0	17.63	20.13	0.103	33.01	-12.88
20 MHz	QPSK	2510.0	2.50	1 / 0	22.44	24.94	0.312	33.01	-8.07
		2535.0	2.50	1 / 50	22.59	25.09	0.323	33.01	-7.92
		2560.0	2.50	1 / 0	22.35	24.85	0.305	33.01	-8.16
	16-QAM	2560.0	2.50	1 / 0	21.95	24.45	0.279	33.01	-8.56
	64-QAM	2560.0	2.50	1 / 0	21.02	23.52	0.225	33.01	-9.49
	256-QAM	2510.0	2.50	1 / 99	17.55	20.05	0.101	33.01	-12.96


Table 7-37. Antenna 2 EIRP Data (LTE Band 7)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 513 of 571

LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	2.40	1 / 0	28.20	30.60	1.148	33.01	-2.41
		2593.0	2.40	1 / 0	27.95	30.35	1.084	33.01	-2.66
		2687.5	2.40	1 / 0	28.02	30.42	1.102	33.01	-2.59
	16-QAM	2498.5	2.40	1 / 0	27.17	29.57	0.906	33.01	-3.44
	64-QAM	2498.5	2.40	1 / 0	26.57	28.97	0.789	33.01	-4.04
256-QAM	2498.5	2.40	1 / 0	25.09	27.49	0.561	33.01	-5.52	
10 MHz	QPSK	2501.0	2.40	1 / 0	28.20	30.60	1.148	33.01	-2.41
		2593.0	2.40	1 / 0	27.92	30.32	1.076	33.01	-2.69
		2685.0	2.40	1 / 0	28.11	30.51	1.125	33.01	-2.50
	16-QAM	2685.0	2.40	1 / 0	27.14	29.54	0.899	33.01	-3.47
	64-QAM	2685.0	2.40	1 / 25	26.65	29.05	0.804	33.01	-3.96
	256-QAM	2501.0	2.40	1 / 0	25.07	27.47	0.558	33.01	-5.54
15 MHz	QPSK	2503.5	2.40	1 / 0	28.20	30.60	1.148	33.01	-2.41
		2593.0	2.40	1 / 0	27.96	30.36	1.086	33.01	-2.65
		2682.5	2.40	1 / 74	28.04	30.44	1.107	33.01	-2.57
	16-QAM	2682.5	2.40	1 / 74	27.16	29.56	0.904	33.01	-3.45
	64-QAM	2682.5	2.40	1 / 37	26.62	29.02	0.798	33.01	-3.99
	256-QAM	2503.5	2.40	1 / 0	24.99	27.39	0.548	33.01	-5.62
20 MHz	QPSK	2506.0	2.40	1 / 0	28.16	30.56	1.138	33.01	-2.45
		2593.0	2.40	1 / 0	27.95	30.35	1.084	33.01	-2.66
		2680.0	2.40	1 / 99	28.20	30.60	1.148	33.01	-2.41
	16-QAM	2506.0	2.40	1 / 0	27.05	29.45	0.881	33.01	-3.56
	64-QAM	2680.0	2.40	1 / 0	26.72	29.12	0.817	33.01	-3.89
	256-QAM	2506.0	2.40	1 / 0	25.04	27.44	0.555	33.01	-5.57


Table 7-38. Antenna 2 EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 514 of 571

LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	2.40	1 / 0	25.70	28.10	0.646	33.01	-4.91
		2593.0	2.40	1 / 0	25.45	27.85	0.610	33.01	-5.16
		2687.5	2.40	1 / 0	25.48	27.88	0.614	33.01	-5.13
	16-QAM	2687.5	2.40	1 / 0	24.59	26.99	0.500	33.01	-6.02
	64-QAM	2498.5	2.40	1 / 0	23.68	26.08	0.406	33.01	-6.93
	256-QAM	2687.5	2.40	1 / 0	21.35	23.75	0.237	33.01	-9.26
10 MHz	QPSK	2501.0	2.40	1 / 0	25.70	28.10	0.646	33.01	-4.91
		2593.0	2.40	1 / 0	25.42	27.82	0.605	33.01	-5.19
		2685.0	2.40	1 / 0	25.52	27.92	0.619	33.01	-5.09
	16-QAM	2501.0	2.40	1 / 0	24.65	27.05	0.507	33.01	-5.96
	64-QAM	2685.0	2.40	1 / 49	23.60	26.00	0.398	33.01	-7.01
	256-QAM	2501.0	2.40	1 / 49	21.31	23.71	0.235	33.01	-9.30
15 MHz	QPSK	2503.5	2.40	1 / 0	25.45	27.85	0.610	33.01	-5.16
		2593.0	2.40	1 / 74	25.21	27.61	0.577	33.01	-5.40
		2682.5	2.40	1 / 0	25.36	27.76	0.597	33.01	-5.25
	16-QAM	2682.5	2.40	1 / 37	24.37	26.77	0.475	33.01	-6.24
	64-QAM	2682.5	2.40	1 / 0	23.42	25.82	0.382	33.01	-7.19
	256-QAM	2682.5	2.40	1 / 0	21.22	23.62	0.230	33.01	-9.39
20 MHz	QPSK	2506.0	2.40	1 / 0	25.43	27.83	0.607	33.01	-5.18
		2593.0	2.40	1 / 0	25.47	27.87	0.612	33.01	-5.14
		2680.0	2.40	1 / 99	25.44	27.84	0.608	33.01	-5.17
	16-QAM	2506.0	2.40	1 / 0	24.52	26.92	0.492	33.01	-6.09
	64-QAM	2506.0	2.40	1 / 50	23.43	25.83	0.383	33.01	-7.18
	256-QAM	2506.0	2.40	1 / 50	21.31	23.71	0.235	33.01	-9.30


Table 7-39. Antenna 2 EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device	Page 515 of 571

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	2.00	1 / 12	21.24	23.24	0.211	23.98	-0.74
		2310.0	2.00	1 / 12	21.40	23.40	0.219	23.98	-0.58
		2312.5	2.00	1 / 23	21.38	23.38	0.218	23.98	-0.60
	QPSK	2307.5	2.00	1 / 23	21.34	23.34	0.216	23.98	-0.64
		2310.0	2.00	1 / 23	21.45	23.45	0.221	23.98	-0.53
		2312.5	2.00	1 / 23	21.27	23.27	0.212	23.98	-0.71
	16-QAM	2312.5	2.00	1 / 23	20.42	22.42	0.175	23.98	-1.56
64-QAM	2310.0	2.00	1 / 23	19.43	21.43	0.139	23.98	-2.55	
256-QAM	2307.5	2.00	1 / 1	16.54	18.54	0.071	23.98	-5.44	
10 MHz	π/2 BPSK	2310.0	2.00	1 / 50	21.39	23.39	0.218	23.98	-0.59
	QPSK	2310.0	2.00	1 / 25	21.26	23.26	0.212	23.98	-0.72
	16-QAM	2310.0	2.00	1 / 1	20.10	22.10	0.162	23.98	-1.88
	64-QAM	2310.0	2.00	1 / 1	19.37	21.37	0.137	23.98	-2.61
	256-QAM	2310.0	2.00	1 / 50	16.53	18.53	0.071	23.98	-5.45

Table 7-40. Antenna 2 EIRP Data (NR Band n30)

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270066-10.BCG	Test Dates: 10/01/2023 - 03/07/2024	EUT Type: Tablet Device		Page 516 of 571

ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	22.66	2.50	25.16	0.328	33.01	-7.85
				21100	2535.0	1	99		21298	2554.8	1	0	22.52	2.50	25.02	0.318	33.01	-7.99
				21350	2560.0	1	0		21152	2540.2	1	99	22.49	2.50	24.99	0.316	33.01	-8.02
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	20.99	2.50	23.49	0.223	33.01	-8.52
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	19.98	2.50	22.48	0.177	33.01	-10.53
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	20.00	2.50	22.50	0.178	33.01	-10.51
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	18.21	2.50	20.71	0.118	33.01	-12.30

Table 7-44. Antenna 2 EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41 (PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	28.12	2.40	30.52	1.127	33.01	-2.49
				40620	2593.0	1	99		40818	2612.8	1	0	27.88	2.40	30.28	1.067	33.01	-2.73
				41490	2680.0	1	0		41292	2660.2	1	99	27.99	2.40	30.39	1.094	33.01	-2.62
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	27.14	2.40	29.54	0.899	33.01	-3.47
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	26.28	2.40	28.68	0.738	33.01	-4.33
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	25.31	2.40	27.71	0.590	33.01	-5.30
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	24.14	2.40	26.54	0.451	33.01	-6.47

Table 7-45. Antenna 2 EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41 (PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP 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 B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.16	2.40	27.56	0.570	33.01	-5.45
				40620	2593.0	1	99		40818	2612.8	1	0	24.87	2.40	27.27	0.533	33.01	-5.74
				41490	2680.0	1	0		41292	2660.2	1	99	25.07	2.40	27.47	0.558	33.01	-5.54
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	23.19	2.40	25.59	0.362	33.01	-7.42
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	22.17	2.40	24.57	0.286	33.01	-8.44
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	22.14	2.40	24.54	0.284	33.01	-8.47
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	20.22	2.40	22.62	0.183	33.01	-10.39

Table 7-46. Antenna 2 EIRP Data (ULCA LTE Band 41 (PC3))

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7.7 Radiated Spurious Emissions

§2.1053, 27.53(a), 27.53(m)

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 broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed 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.

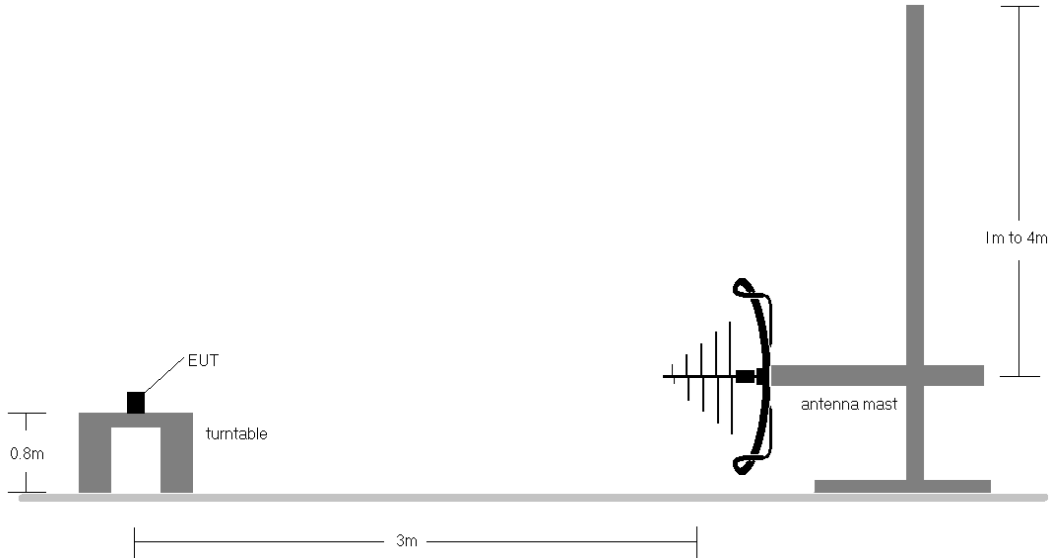


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

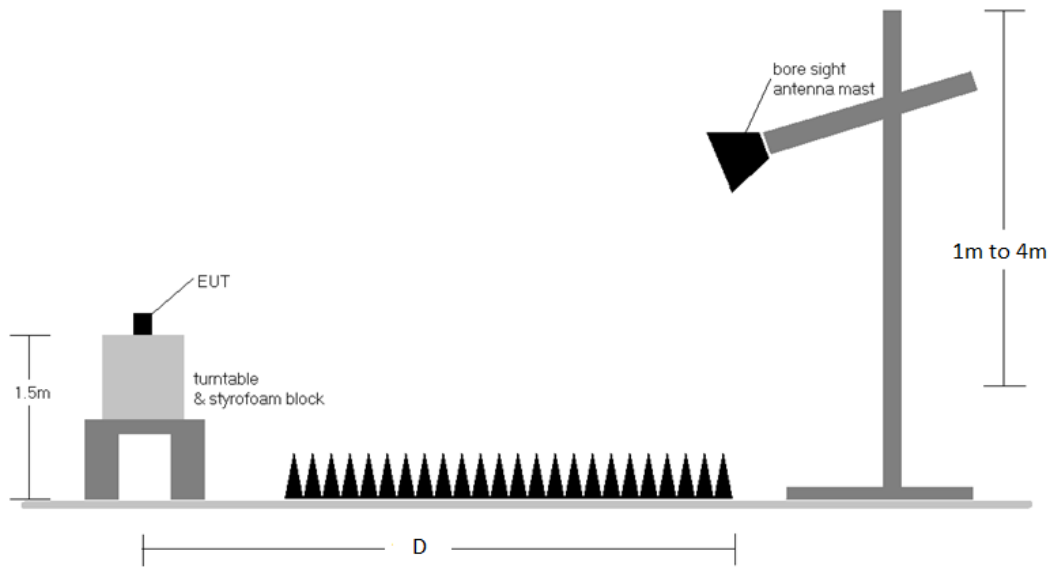




Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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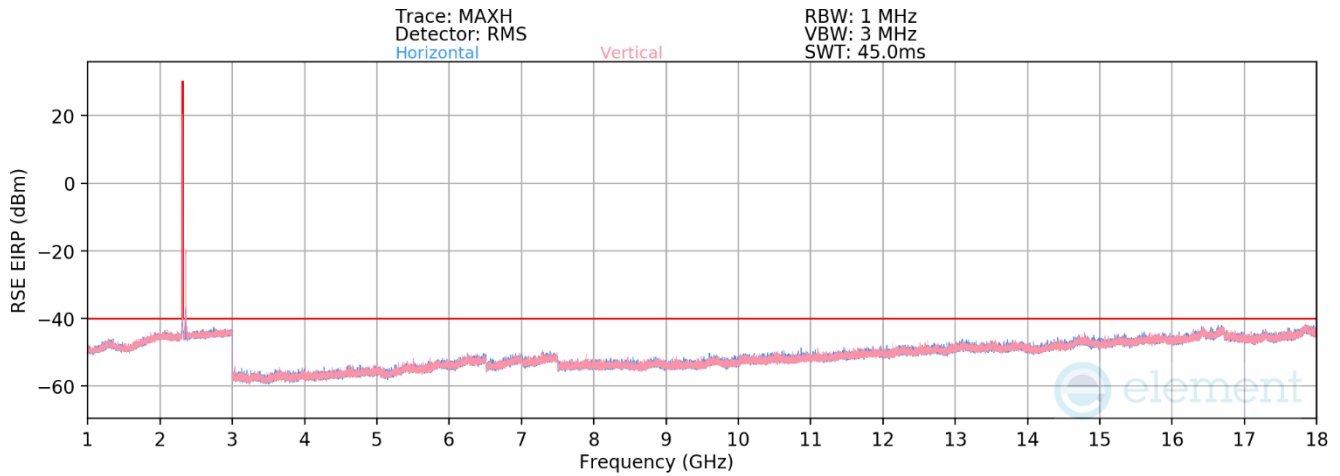
Test Notes

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. 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.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. Uplink carrier aggregation intra-band radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) emissions were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
8. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.
9. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.
10. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.
11. 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.
12. 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.

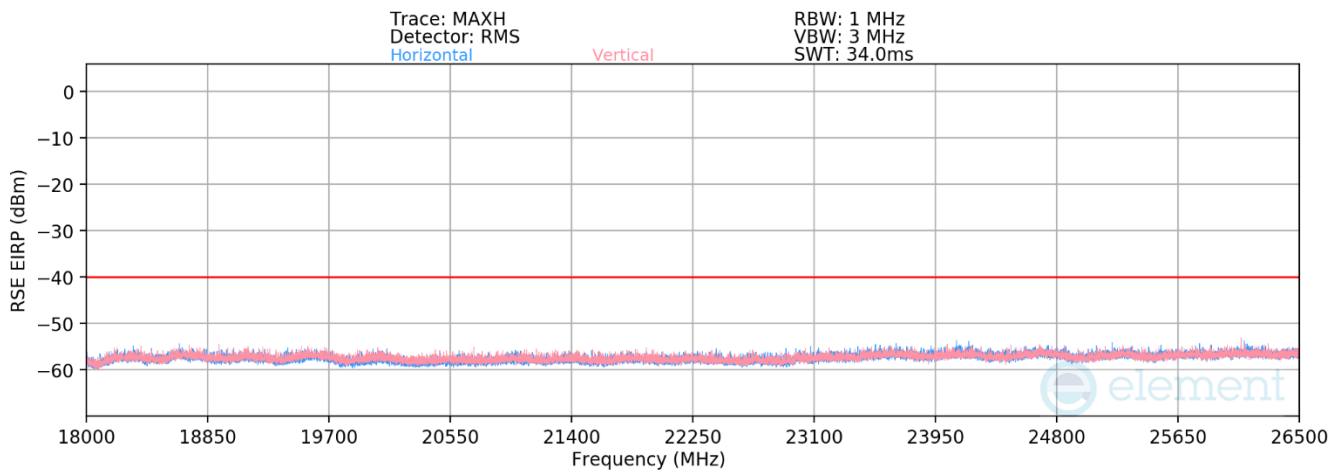
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7.7.1 Antenna 4 Radiated Spurious Emission Measurements


LTE Band 30



Plot 7-909. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (LTE Band 30)



Plot 7-910. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 30)

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Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-77.30	4.38	34.08	-61.15	-40.00	-21.15
6922.5	V	-	-	-79.96	8.85	35.89	-59.34	-40.00	-19.34
9230.0	V	-	-	-80.63	9.74	36.11	-59.12	-40.00	-19.12

Table 7-47. Antenna 4 Radiated Spurious Data (LTE Band 30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-78.41	4.40	32.99	-62.24	-40.00	-22.24
6930.0	V	-	-	-79.30	8.84	36.54	-58.69	-40.00	-18.69
9240.0	V	-	-	-81.10	9.77	35.67	-59.56	-40.00	-19.56

Table 7-48. Antenna 4 Radiated Spurious Data (LTE Band 30 – Mid Channel)

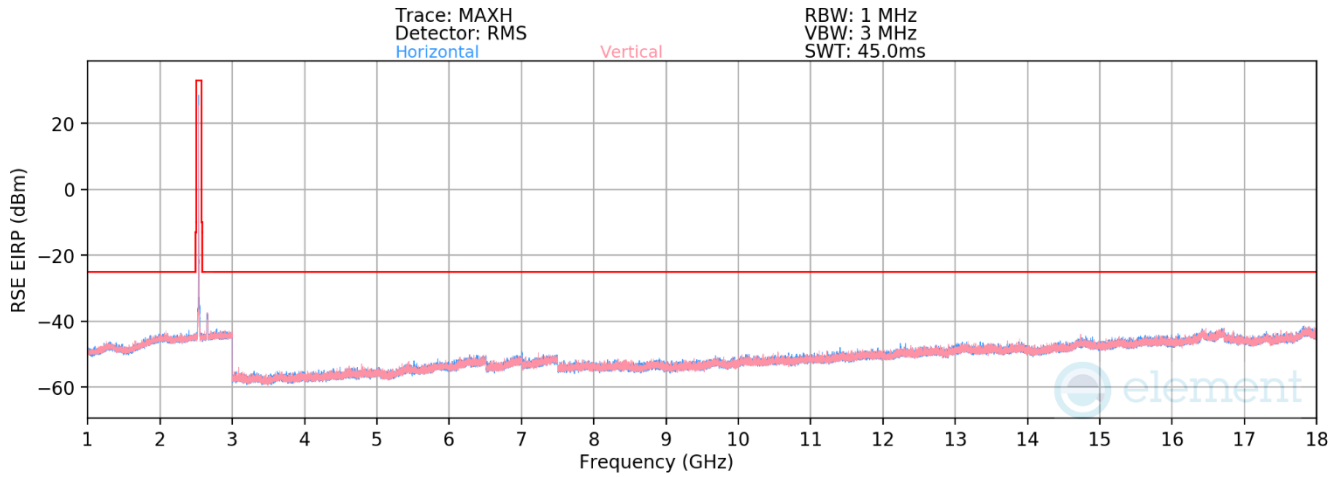
Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	V	-	-	-76.95	4.41	34.46	-60.77	-40.00	-20.77
6937.50	V	-	-	-80.07	8.85	35.78	-59.45	-40.00	-19.45
9250.00	V	-	-	-80.34	9.79	36.45	-58.78	-40.00	-18.78

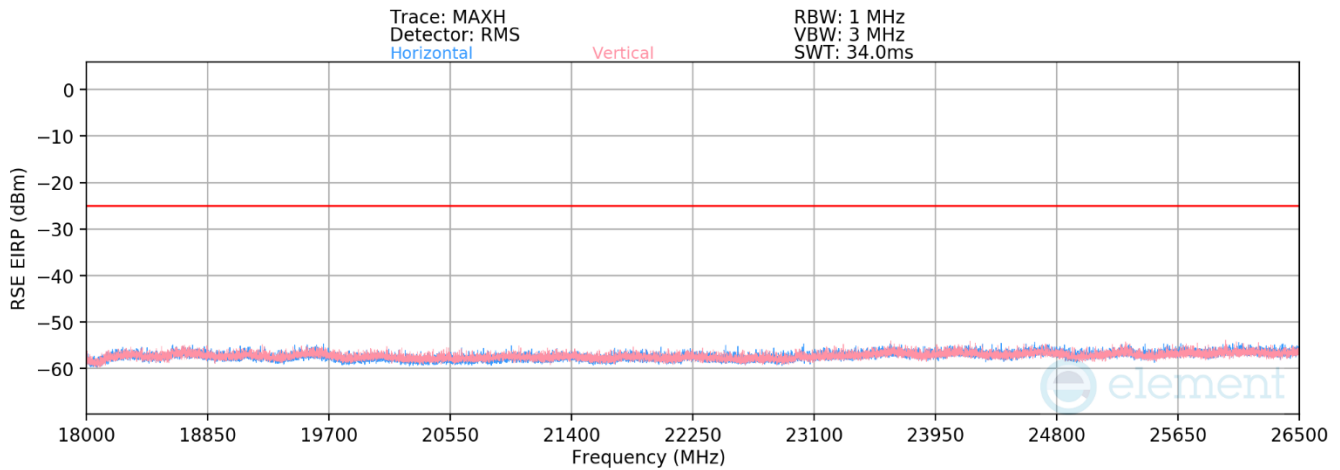
Table 7-49. Antenna 4 Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 7



Plot 7-911. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (LTE Band 7)



Plot 7-912. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 7)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
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]
5020.0	V	-	-	-78.44	4.60	33.16	-62.07	-25.00	-37.07
7530.0	V	-	-	-78.99	8.55	36.56	-58.67	-25.00	-33.67
10040.0	V	-	-	-80.94	10.64	36.70	-58.53	-25.00	-33.53

Table 7-50. Antenna 4 Radiated Spurious Data (LTE Band 7 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
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]
5070.0	V	-	-	-78.87	4.99	33.12	-62.11	-25.00	-37.11
7605.0	V	-	-	-80.20	8.83	35.63	-59.60	-25.00	-34.60
10140.0	V	-	-	-81.14	10.77	36.63	-58.60	-25.00	-33.60

Table 7-51. Antenna 4 Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
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]
5120.00	V	-	-	-78.93	4.86	32.93	-62.30	-25.00	-37.30
7680.00	V	-	-	-80.80	9.18	35.38	-59.85	-25.00	-34.85
10240.00	V	-	-	-80.46	10.64	37.18	-58.05	-25.00	-33.05

Table 7-52. Antenna 4 Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
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]
5012.0	V	-	-	-77.34	4.55	34.21	-61.02	-25.00	-36.02
7518.0	V	-	-	-79.72	8.50	35.78	-59.45	-25.00	-34.45
10024.0	V	-	-	-80.23	10.60	37.37	-57.86	-25.00	-32.86

Table 7-53. Antenna 4 Radiated Spurious Data (LTE Band 41 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
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]
5186.0	V	-	-	-77.58	4.63	34.05	-61.18	-25.00	-36.18
7779.0	V	-	-	-79.96	9.36	36.40	-58.83	-25.00	-33.83
10372.0	V	-	-	-79.89	10.52	37.63	-57.60	-25.00	-32.60

Table 7-54. Antenna 4 Radiated Spurious Data (LTE Band 41 – Mid Channel)

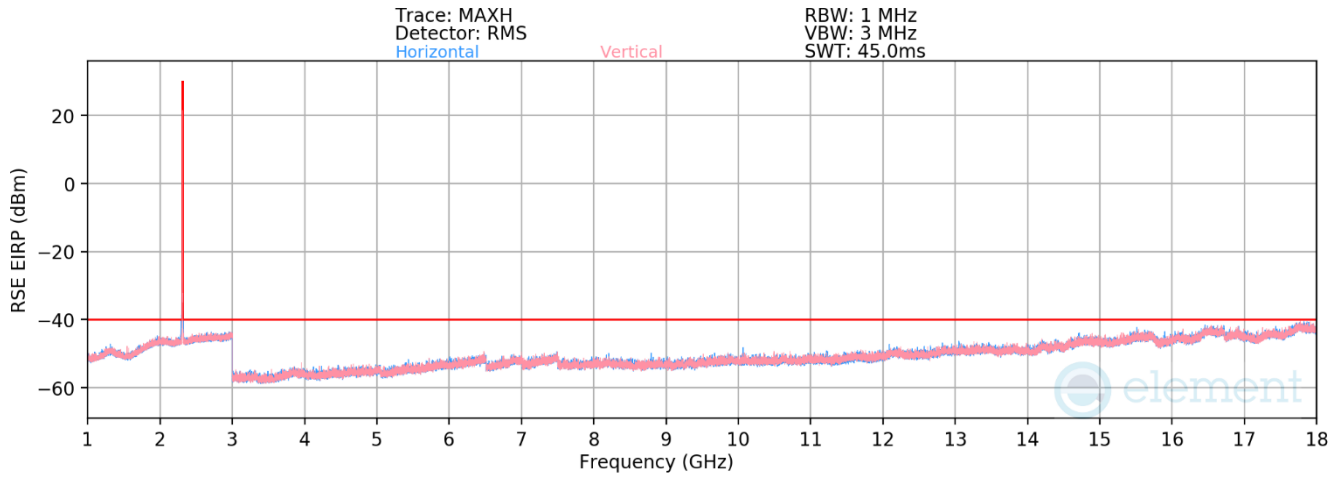
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

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]
5360.0	V	-	-	-78.14	5.73	34.59	-60.64	-25.00	-35.64
8040.0	V	-	-	-79.49	9.22	36.73	-58.50	-25.00	-33.50
10720.0	V	-	-	-80.18	11.06	37.88	-57.35	-25.00	-32.35

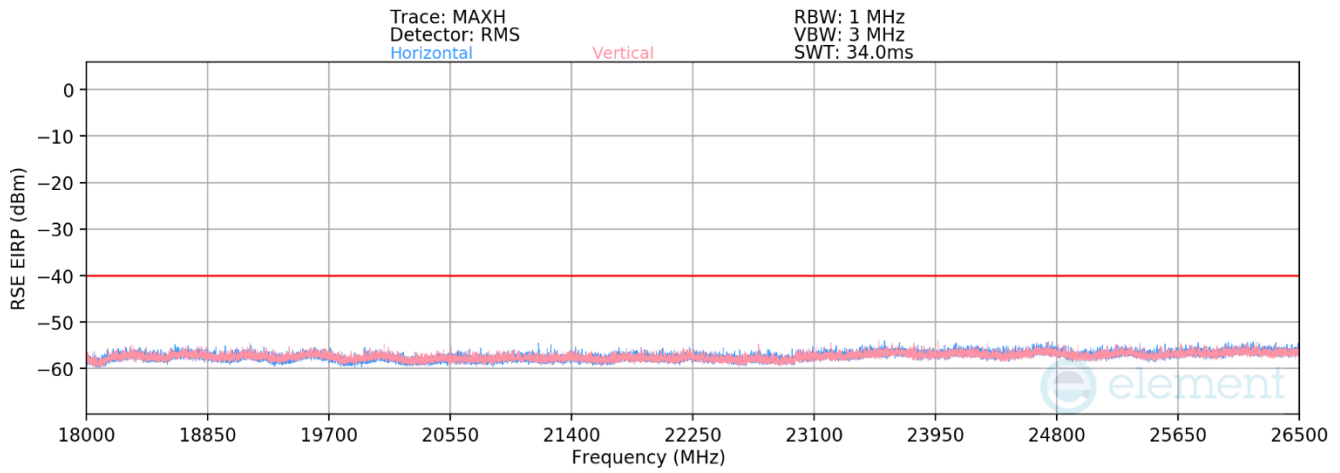
Table 7-55. Antenna 4 Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30



Plot 7-913. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (NR Band n30)



Plot 7-914. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n30)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-78.86	5.02	33.16	-62.07	-40.00	-22.07
6922.5	V	-	-	-79.49	8.26	35.77	-59.46	-40.00	-19.46
9230.0	V	-	-	-80.21	9.43	36.22	-59.01	-40.00	-19.01

Table 7-56. Antenna 4 Radiated Spurious Data (NR Band n30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-77.78	4.26	33.48	-61.75	-40.00	-21.75
6930.0	V	-	-	-79.18	8.77	36.59	-58.64	-40.00	-18.64
9240.0	V	-	-	-79.83	9.32	36.49	-58.74	-40.00	-18.74

Table 7-57. Antenna 4 Radiated Spurious Data (NR Band n30 – Mid Channel)

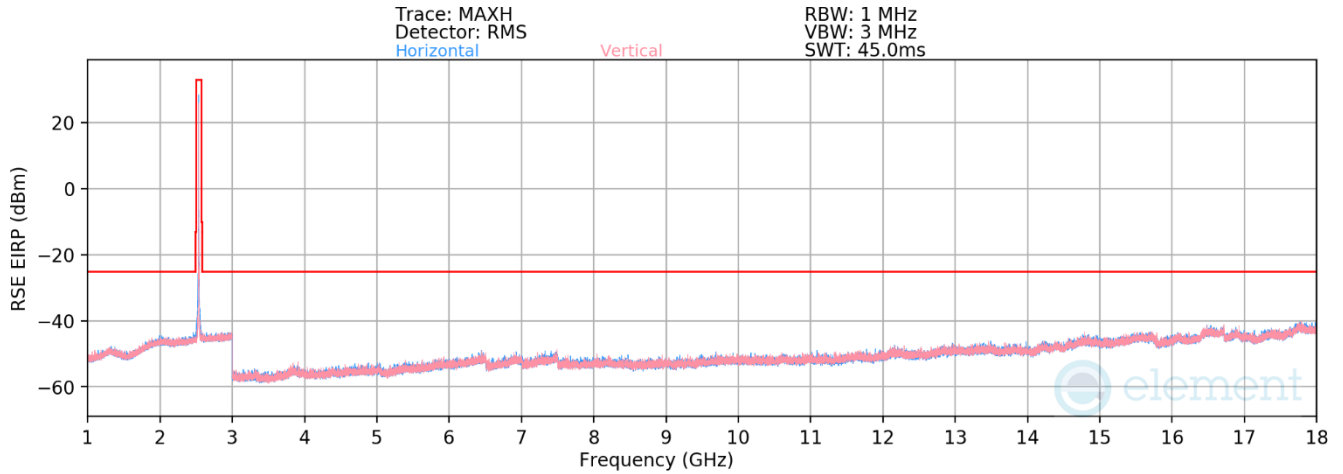
Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-79.26	5.09	32.83	-62.40	-40.00	-22.40
6937.5	V	-	-	-79.39	8.18	35.79	-59.44	-40.00	-19.44
9250.0	V	-	-	-80.30	9.31	36.01	-59.22	-40.00	-19.22

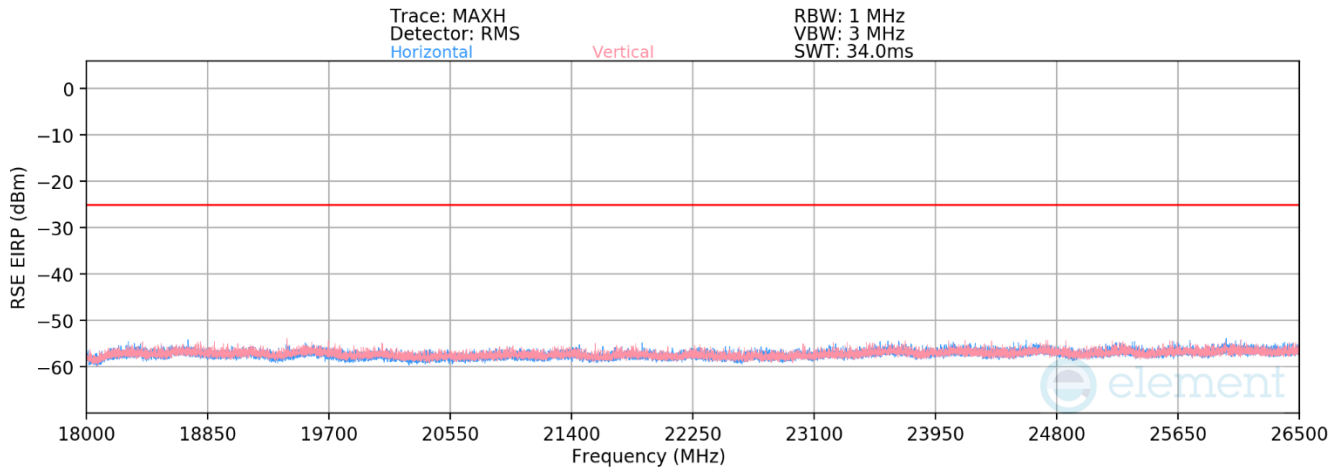
Table 7-58. Antenna 4 Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7



Plot 7-915. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (NR Band n7)



Plot 7-916. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n7)

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NR Band n7

Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

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]
5040.0	V	-	-	-80.63	7.31	33.68	-61.55	-25.00	-36.55
7560.0	V	-	-	-81.79	10.73	35.94	-59.29	-25.00	-34.29
10080.0	V	-	-	-82.54	13.63	38.09	-57.14	-25.00	-32.14

Table 7-59. Antenna 4 Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
RB / Offset:	1 / 108


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]
5070.0	V	-	-	-78.77	5.58	33.81	-61.42	-25.00	-36.42
7605.0	V	-	-	-79.64	8.52	35.88	-59.35	-25.00	-34.35
10140.0	V	-	-	-80.17	10.75	37.58	-57.65	-25.00	-32.65

Table 7-60. Antenna 4 Radiated Spurious Data (NR Band n7 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

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]
5100.0	V	-	-	-78.50	5.02	33.52	-61.71	-25.00	-36.71
7650.0	V	-	-	-80.40	9.28	35.88	-59.35	-25.00	-34.35
10200.0	V	-	-	-79.99	10.34	37.35	-57.88	-25.00	-32.88

Table 7-61. Antenna 4 Radiated Spurious Data (NR Band n7 – High Channel)

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n41

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	-	-	-78.37	5.57	34.20	-61.03	-25.00	-36.03
7638.0	V	-	-	-79.49	8.47	35.98	-59.25	-25.00	-34.25
10184.0	V	-	-	-79.45	10.70	38.25	-56.98	-25.00	-31.98

Table 7-62. Antenna 4 Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-77.90	5.31	34.41	-60.82	-25.00	-35.82
7779.0	V	-	-	-79.39	8.47	36.08	-59.15	-25.00	-34.15
10372.0	V	-	-	-79.57	11.34	38.77	-56.46	-25.00	-31.46

Table 7-63. Antenna 4 Radiated Spurious Data (NR Band n41 – Mid Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136

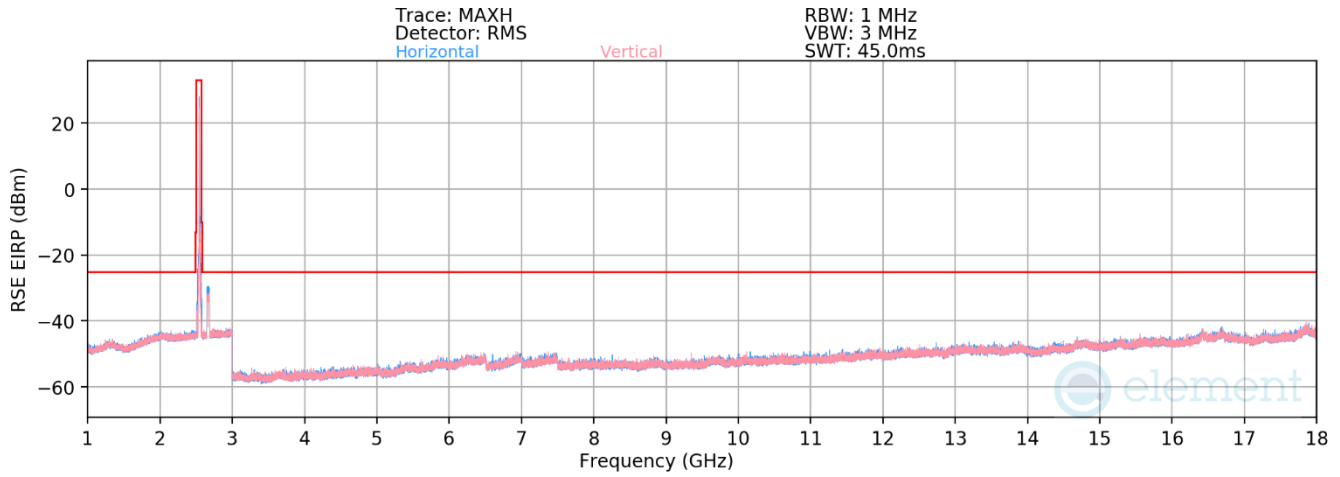
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-78.14	5.81	34.67	-60.56	-25.00	-35.56
7920.0	V	-	-	-79.57	8.75	36.18	-59.05	-25.00	-34.05
10560.0	V	-	-	-80.05	11.38	38.33	-56.90	-25.00	-31.90

Table 7-64. Antenna 4 Radiated Spurious Data (NR Band n41 – High Channel)

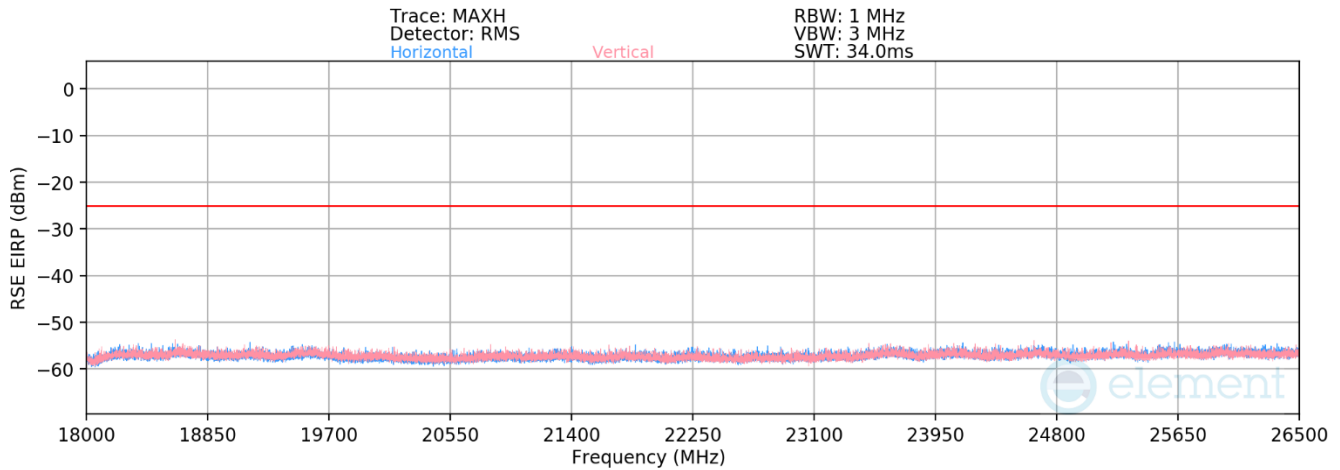
FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-917. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE B7)



Plot 7-918. Antenna 4 Radiated Spurious Emission above 18GHz (ULCA LTE B7)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
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]
5020.0	V	-	-	-78.79	4.41	32.62	-62.64	-25.00	-37.64
7530.0	V	-	-	-80.89	9.21	35.32	-59.94	-25.00	-34.94
10040.0	V	-	-	-81.14	10.40	36.26	-59.00	-25.00	-34.00

Table 7-65. Antenna 4 Radiated Spurious Data (ULCA LTE B7 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
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]
5070.0	V	-	-	-79.01	4.94	32.93	-62.32	-25.00	-37.32
7605.0	V	-	-	-81.16	9.23	35.07	-60.19	-25.00	-35.19
10140.0	V	-	-	-81.39	10.83	36.44	-58.82	-25.00	-33.82

Table 7-66. Antenna 4 Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

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]
5120.0	V	-	-	-78.85	5.17	33.32	-61.94	-25.00	-36.94
7680.0	V	-	-	-80.96	9.12	35.16	-60.10	-25.00	-35.10
10240.0	V	-	-	-81.29	10.82	36.53	-58.72	-25.00	-33.72

Table 7-67. Antenna 4 Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-77.89	4.55	33.66	-61.57	-25.00	-36.57
7518.0	V	-	-	-79.63	8.50	35.87	-59.36	-25.00	-34.36
10024.0	V	-	-	-79.80	10.60	37.80	-57.43	-25.00	-32.43

Table 7-68. Antenna 4 Radiated Spurious Data (ULCA LTE B41 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-77.76	4.63	33.87	-61.36	-25.00	-36.36
7779.0	V	-	-	-80.06	9.36	36.30	-58.93	-25.00	-33.93
10372.0	V	-	-	-79.74	10.52	37.78	-57.45	-25.00	-32.45

Table 7-69. Antenna 4 Radiated Spurious Data (ULCA LTE B41 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-78.07	5.73	34.66	-60.57	-25.00	-35.57
8040.0	V	-	-	-80.02	9.22	36.20	-59.03	-25.00	-34.03
10720.0	V	-	-	-80.20	11.06	37.86	-57.37	-25.00	-32.37

Table 7-70. Antenna 4 Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.2 Antenna 1b Radiated Spurious Emission Measurements

LTE Band 30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-77.96	4.38	33.42	-61.81	-40.00	-21.81
6922.5	V	-	-	-80.19	8.85	35.66	-59.57	-40.00	-19.57
9230.0	V	-	-	-80.23	9.74	36.51	-58.72	-40.00	-18.72

Table 7-71. Antenna 1b Radiated Spurious Data (LTE Band 30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-76.54	4.40	34.86	-60.37	-40.00	-20.37
6930.0	V	-	-	-79.89	8.84	35.95	-59.28	-40.00	-19.28
9240.0	V	-	-	-80.25	9.77	36.52	-58.71	-40.00	-18.71

Table 7-72. Antenna 1b Radiated Spurious Data (LTE Band 30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	V	-	-	-77.20	4.41	34.21	-61.02	-40.00	-21.02
6937.50	V	-	-	-80.00	8.85	35.85	-59.38	-40.00	-19.38
9250.00	V	-	-	-80.30	9.79	36.49	-58.74	-40.00	-18.74

Table 7-73. Antenna 1b Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 7

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
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]
5020.0	V	-	-	-78.30	4.60	33.30	-61.93	-25.00	-36.93
7530.0	V	-	-	-79.83	8.55	35.72	-59.51	-25.00	-34.51
10040.0	V	-	-	-81.11	10.64	36.53	-58.70	-25.00	-33.70

Table 7-74. Antenna 1b Radiated Spurious Data (LTE Band 7 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
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]
5070.0	V	-	-	-78.71	4.99	33.28	-61.95	-25.00	-36.95
7605.0	V	-	-	-80.28	8.83	35.55	-59.68	-25.00	-34.68
10140.0	V	-	-	-81.13	10.77	36.64	-58.59	-25.00	-33.59

Table 7-75. Antenna 1b Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
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]
5120.00	V	-	-	-78.60	4.86	33.26	-61.97	-25.00	-36.97
7680.00	V	-	-	-80.84	9.18	35.34	-59.89	-25.00	-34.89
10240.00	V	-	-	-80.65	10.64	36.99	-58.24	-25.00	-33.24

Table 7-76. Antenna 1b Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
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]
5012.0	V	236	350	-70.31	4.55	41.24	-53.99	-25.00	-28.99
7518.0	V	221	15	-72.87	8.50	42.63	-52.60	-25.00	-27.60
10024.0	V	-	-	-80.29	10.60	37.31	-57.92	-25.00	-32.92
12530.0	V	-	-	-80.75	13.94	40.19	-55.04	-25.00	-30.04
15036.0	V	-	-	-80.87	14.65	40.78	-54.45	-25.00	-29.45

Table 7-77. Antenna 1b Radiated Spurious Data (LTE Band 41 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
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]
5186.0	V	-	-	-77.34	4.63	34.29	-60.94	-25.00	-35.94
7779.0	V	277	7	-77.21	9.36	39.15	-56.08	-25.00	-31.08
10372.0	V	-	-	-79.79	10.52	37.73	-57.50	-25.00	-32.50
12965.0	V	-	-	-81.24	14.32	40.08	-55.15	-25.00	-30.15
15558.0	V	-	-	-80.57	15.52	41.95	-53.28	-25.00	-28.28

Table 7-78. Antenna 1b Radiated Spurious Data (LTE Band 41 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
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]
5360.0	V	-	-	-77.59	5.73	35.14	-60.09	-25.00	-35.09
8040.0	V	-	-	-79.03	9.22	37.19	-58.04	-25.00	-33.04
10720.0	V	-	-	-79.96	11.06	38.10	-57.13	-25.00	-32.13

Table 7-79. Antenna 1b Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

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]
4615.0	V	-	-	-78.24	4.25	33.01	-62.22	-40.00	-22.22
6922.5	V	-	-	-80.49	8.87	35.38	-59.85	-40.00	-19.85
9230.0	V	-	-	-80.00	9.25	36.25	-58.98	-40.00	-18.98

Table 7-80. Antenna 1b Radiated Spurious Data (NR Band n30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


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]
4620.0	V	-	-	-78.52	4.26	32.74	-62.49	-40.00	-22.49
6930.0	V	-	-	-80.47	8.77	35.30	-59.93	-40.00	-19.93
9240.0	V	-	-	-79.63	9.32	36.69	-58.54	-40.00	-18.54

Table 7-81. Antenna 1b Radiated Spurious Data (NR Band n30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

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]
4625.0	V	-	-	-78.25	4.31	33.06	-62.17	-40.00	-22.17
6937.5	V	-	-	-79.75	8.66	35.91	-59.32	-40.00	-19.32
9250.0	V	-	-	-79.43	9.28	36.85	-58.38	-40.00	-18.38

Table 7-82. Antenna 1b Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2899		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7

Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

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]
5040.0	V	-	-	-77.90	4.94	34.04	-61.19	-25.00	-36.19
7560.0	V	-	-	-80.31	8.96	35.65	-59.58	-25.00	-34.58
10080.0	V	-	-	-80.02	10.02	37.00	-58.23	-25.00	-33.23

Table 7-83. Antenna 1b Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
RB / Offset:	1 / 108


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]
5070.0	V	-	-	-80.84	7.40	33.56	-61.67	-25.00	-36.67
7605.0	V	-	-	-81.79	10.86	36.07	-59.16	-25.00	-34.16
10140.0	V	-	-	-82.73	14.22	38.49	-56.74	-25.00	-31.74

Table 7-84. Antenna 1b Radiated Spurious Data (NR Band n7 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

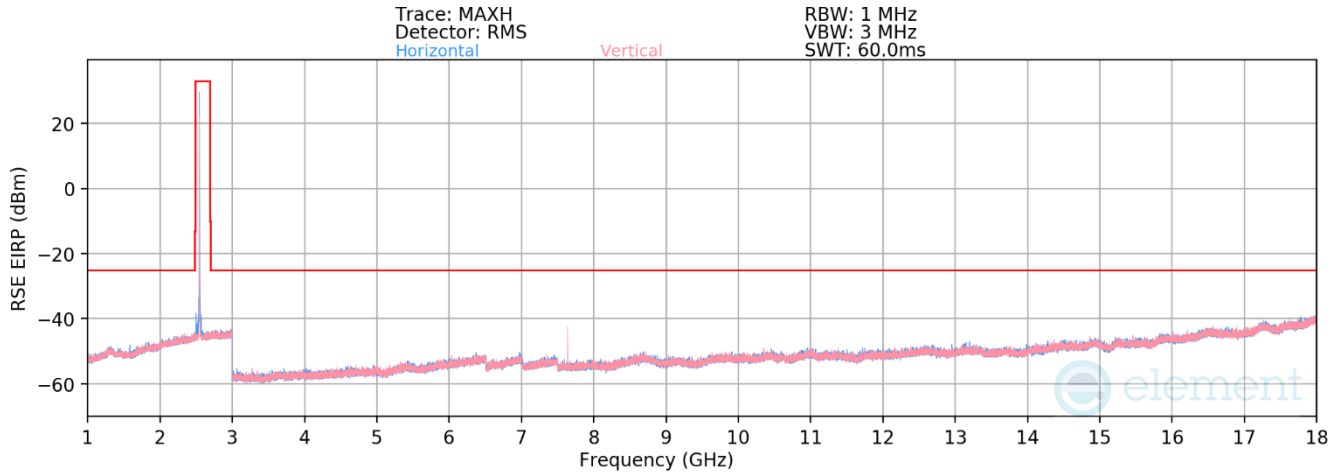
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-78.21	5.02	33.81	-61.42	-25.00	-36.42
7650.0	V	-	-	-80.45	9.28	35.83	-59.40	-25.00	-34.40
10200.0	V	-	-	-80.02	10.34	37.32	-57.91	-25.00	-32.91

Table 7-85. Antenna 1b Radiated Spurious Data (NR Band n7 – High Channel)

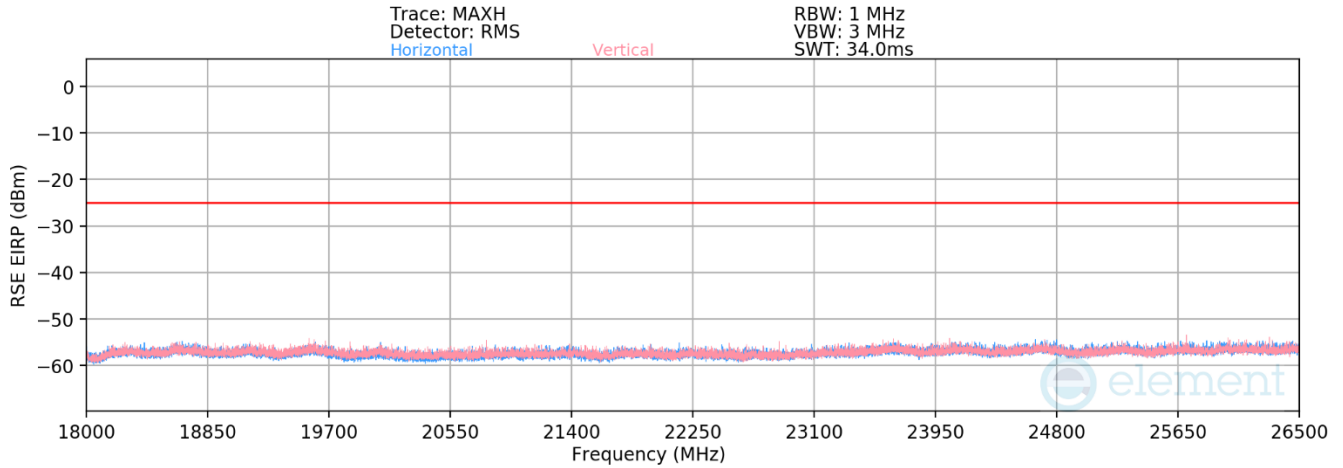
FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n41



Plot 7-919. Antenna 1b Radiated Spurious Plot 1GHz – 18GHz (NR Band n41)



Plot 7-920. Antenna 1b Radiated Spurious Emission above 18GHz (NR Band n41)

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Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136

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]
5092.0	V	319	344	-75.07	5.57	37.50	-57.73	-25.00	-32.73
7638.0	V	271	271	-67.37	8.47	48.10	-47.13	-25.00	-22.13
10184.0	V	-	-	-79.43	10.70	38.27	-56.96	-25.00	-31.96
12730.0	V	-	-	-80.09	14.03	40.94	-54.29	-25.00	-29.29
15276.0	V	-	-	-80.62	17.24	43.62	-51.61	-25.00	-26.61

Table 7-86. Antenna 1b Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136


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]
5186.0	V	-	-	-77.76	5.31	34.55	-60.68	-25.00	-35.68
7779.0	V	257	329	-73.86	8.47	41.61	-53.62	-25.00	-28.62
10372.0	V	-	-	-79.64	11.34	38.70	-56.53	-25.00	-31.53
12965.0	V	-	-	-80.30	13.92	40.62	-54.61	-25.00	-29.61
15558.0	V	-	-	-80.78	17.26	43.48	-51.75	-25.00	-26.75

Table 7-87. Antenna 1b Radiated Spurious Data (NR Band n41 – Mid Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136

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]
5280.0	V	-	-	-78.11	5.81	34.70	-60.53	-25.00	-35.53
7920.0	V	-	-	-78.49	8.75	37.26	-57.97	-25.00	-32.97
10560.0	V	-	-	-80.04	11.38	38.34	-56.89	-25.00	-31.89

Table 7-88. Antenna 1b Radiated Spurious Data (NR Band n41 – High Channel)

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ULCA - LTE B7

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
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]
5020.0	V	-	-	-78.32	4.60	33.28	-61.95	-25.00	-36.95
7530.0	V	-	-	-80.47	8.55	35.08	-60.15	-25.00	-35.15
10040.0	V	-	-	-80.60	10.64	37.04	-58.19	-25.00	-33.19

Table 7-89. Antenna 1b Radiated Spurious Data (ULCA LTE B7 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
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]
5070.0	V	-	-	-78.78	4.99	33.21	-62.02	-25.00	-37.02
7605.0	V	-	-	-80.33	8.83	35.50	-59.73	-25.00	-34.73
10140.0	V	-	-	-80.90	10.77	36.87	-58.36	-25.00	-33.36

Table 7-90. Antenna 1b Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

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]
5120.0	V	-	-	-78.59	4.86	33.27	-61.96	-25.00	-36.96
7680.0	V	-	-	-80.66	9.18	35.52	-59.71	-25.00	-34.71
10240.0	V	-	-	-80.57	10.64	37.07	-58.16	-25.00	-33.16

Table 7-91. Antenna 1b Radiated Spurious Data (ULCA LTE B7 – High Channel)

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