

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
20 MHz	π/2 BPSK	834.0	H	220.0	336.0	6.75	1 / 26	15.00	19.60	0.091	38.45	-18.85	21.75	0.150	40.61	-18.85	
		836.5	H	202.0	333.0	6.68	1 / 53	14.61	19.14	0.082	38.45	-19.31	21.29	0.135	40.61	-19.32	
		839.0	H	222.0	333.0	6.70	1 / 26	14.89	19.44	0.088	38.45	-19.01	21.59	0.144	40.61	-19.01	
	QPSK	834.0	H	220.0	336.0	6.75	1 / 26	15.06	19.66	0.093	38.45	-18.79	21.81	0.152	40.61	-18.79	
		836.5	H	202.0	333.0	6.68	1 / 53	14.56	19.09	0.081	38.45	-19.36	21.24	0.133	40.61	-19.37	
		839.0	H	222.0	333.0	6.70	1 / 26	14.83	19.38	0.087	38.45	-19.07	21.53	0.142	40.61	-19.07	
		16-QAM	834.0	H	220.0	336.0	6.75	1 / 26	13.80	18.40	0.069	38.45	-20.05	20.55	0.114	40.61	-20.05
		64-QAM	834.0	H	220.0	336.0	6.75	1 / 26	12.06	16.66	0.046	38.45	-21.79	18.81	0.076	40.61	-21.79
		256-QAM	834.0	H	220.0	336.0	6.75	1 / 26	10.96	15.56	0.036	38.45	-22.89	17.71	0.059	40.61	-22.89
15 MHz	π/2 BPSK	831.5	H	220.0	336.0	6.73	1 / 39	15.04	19.62	0.092	38.45	-18.83	21.77	0.150	40.61	-18.84	
		836.5	H	202.0	333.0	6.68	1 / 20	14.66	19.19	0.083	38.45	-19.26	21.34	0.136	40.61	-19.26	
		841.5	H	222.0	333.0	6.63	1 / 20	14.94	19.42	0.087	38.45	-19.03	21.57	0.144	40.61	-19.04	
	QPSK	831.5	H	220.0	336.0	6.73	1 / 39	14.96	19.54	0.090	38.45	-18.91	21.69	0.148	40.61	-18.92	
		836.5	H	202.0	333.0	6.68	1 / 20	14.46	18.99	0.079	38.45	-19.46	21.14	0.130	40.61	-19.47	
		841.5	H	222.0	333.0	6.63	1 / 20	14.89	19.37	0.086	38.45	-19.08	21.52	0.142	40.61	-19.09	
		16-QAM	831.5	H	220.0	336.0	6.73	1 / 39	13.66	18.24	0.067	38.45	-20.21	20.39	0.109	40.61	-20.22
		64-QAM	841.5	H	222.0	333.0	6.63	1 / 20	11.93	16.41	0.044	38.45	-22.04	18.56	0.072	40.61	-22.04
		256-QAM	831.5	H	220.0	336.0	6.73	1 / 39	10.97	15.55	0.036	38.45	-22.90	17.70	0.059	40.61	-22.91
10 MHz	π/2 BPSK	829.0	H	220.0	336.0	6.80	1 / 13	14.80	19.46	0.088	38.45	-19.00	21.61	0.145	40.61	-19.00	
		836.5	H	202.0	333.0	6.68	1 / 13	14.49	19.01	0.080	38.45	-19.44	21.16	0.131	40.61	-19.44	
		844.0	H	222.0	333.0	6.66	1 / 26	14.76	19.27	0.084	38.45	-19.18	21.42	0.139	40.61	-19.19	
	QPSK	829.0	H	220.0	336.0	6.80	1 / 13	14.75	19.40	0.087	38.45	-19.05	21.55	0.143	40.61	-19.06	
		836.5	H	202.0	333.0	6.68	1 / 13	14.18	18.71	0.074	38.45	-19.74	20.86	0.122	40.61	-19.75	
		844.0	H	222.0	333.0	6.66	1 / 26	14.80	19.30	0.085	38.45	-19.15	21.45	0.140	40.61	-19.15	
		16-QAM	829.0	H	220.0	336.0	6.80	1 / 13	13.76	18.41	0.069	38.45	-20.04	20.56	0.114	40.61	-20.04
		64-QAM	844.0	H	222.0	333.0	6.66	1 / 26	12.03	16.54	0.045	38.45	-21.91	18.69	0.074	40.61	-21.92
		256-QAM	829.0	H	220.0	336.0	6.80	1 / 13	10.91	15.56	0.036	38.45	-22.89	17.71	0.059	40.61	-22.89
5 MHz	π/2 BPSK	829.0	H	220.0	336.0	6.77	1 / 6	14.86	19.48	0.089	38.45	-18.97	21.63	0.146	40.61	-18.97	
		836.5	H	202.0	333.0	6.68	1 / 6	14.47	19.00	0.079	38.45	-19.45	21.15	0.130	40.61	-19.46	
		844.0	H	222.0	333.0	6.68	1 / 12	14.47	19.00	0.079	38.45	-19.45	21.15	0.130	40.61	-19.46	
	QPSK	829.0	H	220.0	336.0	6.77	1 / 6	14.89	19.52	0.089	38.45	-18.93	21.67	0.147	40.61	-18.94	
		836.5	H	202.0	333.0	6.68	1 / 6	14.58	19.11	0.081	38.45	-19.34	21.26	0.134	40.61	-19.35	
		844.0	H	222.0	333.0	6.68	1 / 12	14.56	19.09	0.081	38.45	-19.36	21.24	0.133	40.61	-19.37	
		16-QAM	829.0	H	220.0	336.0	6.77	1 / 6	13.54	18.17	0.066	38.45	-20.28	20.32	0.108	40.61	-20.29
		64-QAM	829.0	H	220.0	336.0	6.77	1 / 6	11.78	16.40	0.044	38.45	-22.05	18.55	0.072	40.61	-22.06
		256-QAM	829.0	H	220.0	336.0	6.77	1 / 6	10.93	15.55	0.036	38.45	-22.90	17.70	0.059	40.61	-22.90
20 MHz	QPSK (CP-OFDM)	834.0	H	218.0	343.0	6.68	0.00	13.48	18.01	0.063	38.45	-20.44	20.16	0.104	40.61	-20.45	
	QPSK (Opposite Pol.)	834.0	V	174.0	121.0	6.68	0.00	14.01	18.54	0.071	38.45	-19.91	20.69	0.117	40.61	-19.92	
	Closed	834.0	H	230.0	127.0	6.68	0.00	11.36	15.89	0.039	38.45	-22.56	18.04	0.064	40.61	-22.57	
	QPSK (WCP)	834.0	V	139.0	106.0	6.68	0.00	8.57	13.10	0.020	38.45	-25.35	15.25	0.033	40.61	-25.36	

Table 7-9. ERP Data (NR Band n5 – AntA + AntB)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 73 of 115

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
20 MHz	π/2 BPSK	834.0	H	134	323	7.66	1 / 53	11.94	17.45	0.056	38.45	-21.01	19.60	0.091	40.61	-21.01	
		836.5	H	143	330	7.74	1 / 53	12.03	17.62	0.058	38.45	-20.84	19.77	0.095	40.61	-20.84	
		839.0	H	135	331	7.79	1 / 53	12.23	17.87	0.061	38.45	-20.58	20.02	0.100	40.61	-20.59	
	QPSK	834.0	H	134	323	7.66	1 / 53	11.63	17.14	0.052	38.45	-21.32	19.29	0.085	40.61	-21.32	
		836.5	H	143	330	7.74	1 / 53	11.85	17.44	0.055	38.45	-21.02	19.59	0.091	40.61	-21.02	
		839.0	H	135	331	7.79	1 / 53	11.87	17.51	0.056	38.45	-20.94	19.66	0.092	40.61	-20.95	
		16-QAM	839.0	H	135	331	7.79	1 / 53	10.71	16.35	0.043	38.45	-22.10	18.50	0.071	40.61	-22.11
		64-QAM	839.0	H	135	331	7.79	1 / 53	8.87	14.51	0.028	38.45	-23.94	16.66	0.046	40.61	-23.95
		256-QAM	839.0	H	135	331	7.79	1 / 53	7.45	13.09	0.020	38.45	-25.36	15.24	0.033	40.61	-25.37
		15 MHz	π/2 BPSK	831.5	H	134	323	7.56	1 / 20	14.22	19.63	0.092	38.45	-18.82	21.78	0.151	40.61
836.5	H	143		330	7.74	1 / 39	12.04	17.63	0.058	38.45	-20.82	19.78	0.095	40.61	-20.83		
841.5	H	135		331	7.80	1 / 20	12.27	17.92	0.062	38.45	-20.53	20.07	0.102	40.61	-20.53		
QPSK	831.5	H	134	323	7.56	1 / 20	11.70	17.11	0.051	38.45	-21.34	19.26	0.084	40.61	-21.35		
	836.5	H	143	330	7.74	1 / 39	11.73	17.31	0.054	38.45	-21.14	19.46	0.088	40.61	-21.15		
	841.5	H	135	331	7.80	1 / 20	11.75	17.41	0.055	38.45	-21.04	19.56	0.090	40.61	-21.05		
	16-QAM	841.5	H	135	331	7.80	1 / 20	10.69	16.34	0.043	38.45	-22.11	18.49	0.071	40.61	-22.11	
	64-QAM	841.5	H	135	331	7.80	1 / 20	8.94	14.60	0.029	38.45	-23.85	16.75	0.047	40.61	-23.86	
	256-QAM	841.5	H	135	331	7.80	1 / 20	7.64	13.29	0.021	38.45	-25.16	15.44	0.035	40.61	-25.17	
	10 MHz	π/2 BPSK	829.0	H	134	323	7.48	1 / 13	14.60	19.93	0.098	38.45	-18.52	22.08	0.161	40.61	-18.53
836.5	H		143	330	7.74	1 / 13	11.88	17.47	0.056	38.45	-20.98	19.62	0.092	40.61	-20.99		
844.0	H		135	331	7.79	1 / 13	12.10	17.74	0.059	38.45	-20.71	19.89	0.098	40.61	-20.71		
QPSK	829.0	H	134	323	7.48	1 / 26	11.63	16.96	0.050	38.45	-21.49	19.11	0.081	40.61	-21.50		
	836.5	H	143	330	7.74	1 / 13	11.58	17.17	0.052	38.45	-21.28	19.32	0.086	40.61	-21.29		
	844.0	H	135	331	7.79	1 / 13	11.48	17.13	0.052	38.45	-21.32	19.28	0.085	40.61	-21.33		
	16-QAM	844.0	H	135	331	7.79	1 / 13	10.36	16.00	0.040	38.45	-22.45	18.15	0.065	40.61	-22.46	
64-QAM	844.0	H	135	331	7.79	1 / 13	8.85	14.50	0.028	38.45	-23.96	16.65	0.046	40.61	-23.96		
256-QAM	844.0	H	135	331	7.79	1 / 13	7.74	13.38	0.022	38.45	-25.07	15.53	0.036	40.61	-25.07		
5 MHz	π/2 BPSK	829.0	H	134	323	7.40	1 / 12	14.55	19.80	0.096	38.45	-18.65	21.95	0.157	40.61	-18.66	
		836.5	H	143	330	7.74	1 / 6	11.91	17.50	0.056	38.45	-20.95	19.65	0.092	40.61	-20.96	
		844.0	H	135	331	7.76	1 / 6	12.12	17.73	0.059	38.45	-20.72	19.88	0.097	40.61	-20.73	
	QPSK	829.0	H	134	323	7.40	1 / 12	11.44	16.69	0.047	38.45	-21.76	18.84	0.077	40.61	-21.77	
		836.5	H	143	330	7.74	1 / 6	11.70	17.29	0.054	38.45	-21.16	19.44	0.088	40.61	-21.17	
		844.0	H	135	331	7.76	1 / 6	11.92	17.53	0.057	38.45	-20.92	19.68	0.093	40.61	-20.93	
		16-QAM	844.0	H	135	331	7.76	1 / 6	10.58	16.20	0.042	38.45	-22.25	18.35	0.068	40.61	-22.26
	64-QAM	844.0	H	135	331	7.76	1 / 6	9.00	14.61	0.029	38.45	-23.84	16.76	0.047	40.61	-23.85	
	256-QAM	829.0	H	134	323	7.40	1 / 12	6.77	12.02	0.016	38.45	-26.44	14.17	0.026	40.61	-26.44	
	20 MHz	QPSK (CP-OFDM)	839.0	H	135	330	7.74	0.00	9.90	15.49	0.035	38.45	-22.96	17.64	0.058	40.61	-22.97
QPSK (Opposite Pol.)		839.0	V	241	349	7.74	0.00	9.21	14.80	0.030	38.45	-23.65	16.95	0.050	40.61	-23.66	
QPSK (WCP)		839.0	V	221.0	165.0	7.74	0.00	9.90	15.49	0.035	38.45	-22.96	17.64	0.058	40.61	-22.97	

Table 7-10. ERP Data (NR Band n5 – AntA)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 74 of 115

7.6 Uplink Carrier Aggregation

§27.53(m)

Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates 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.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

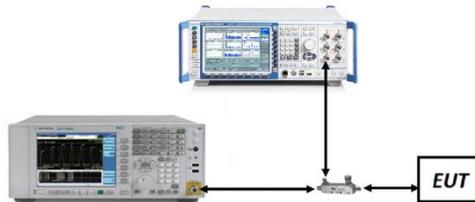


Figure 7-5. Test Instrument & Measurement Setup

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 75 of 115

Test Notes

1. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation with both carriers set to transmit using 1RB.

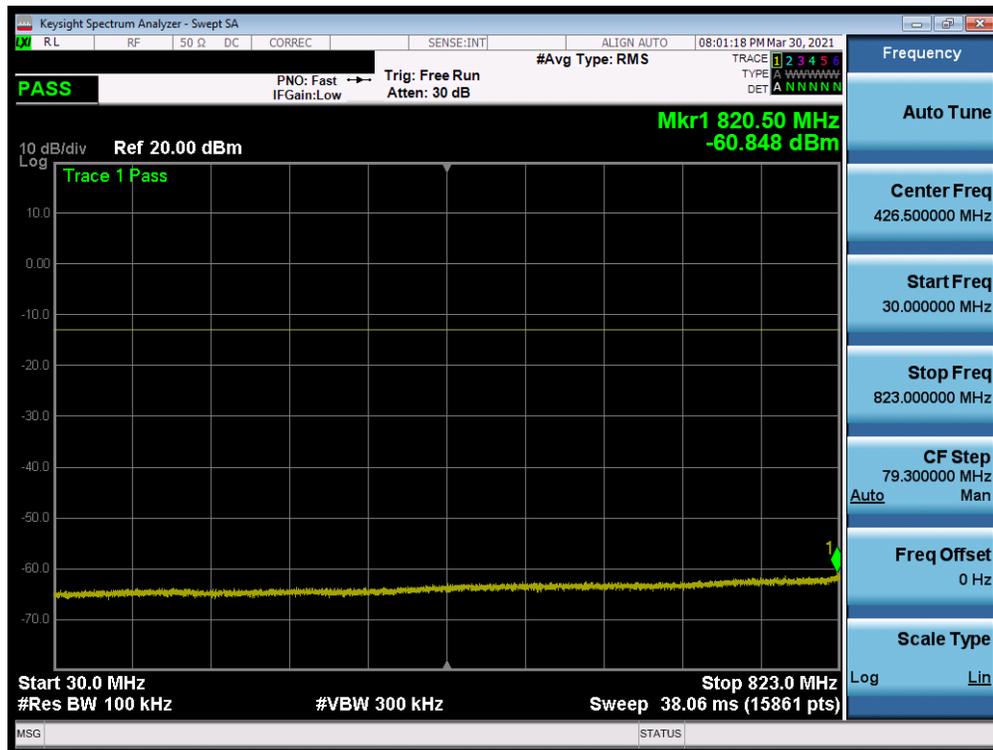
2. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

FCC ID: A3LSMF926U	 PART 22 MEASUREMENT REPORT 		Approved by: Technical Manager
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Uplink CA Configuration 5B

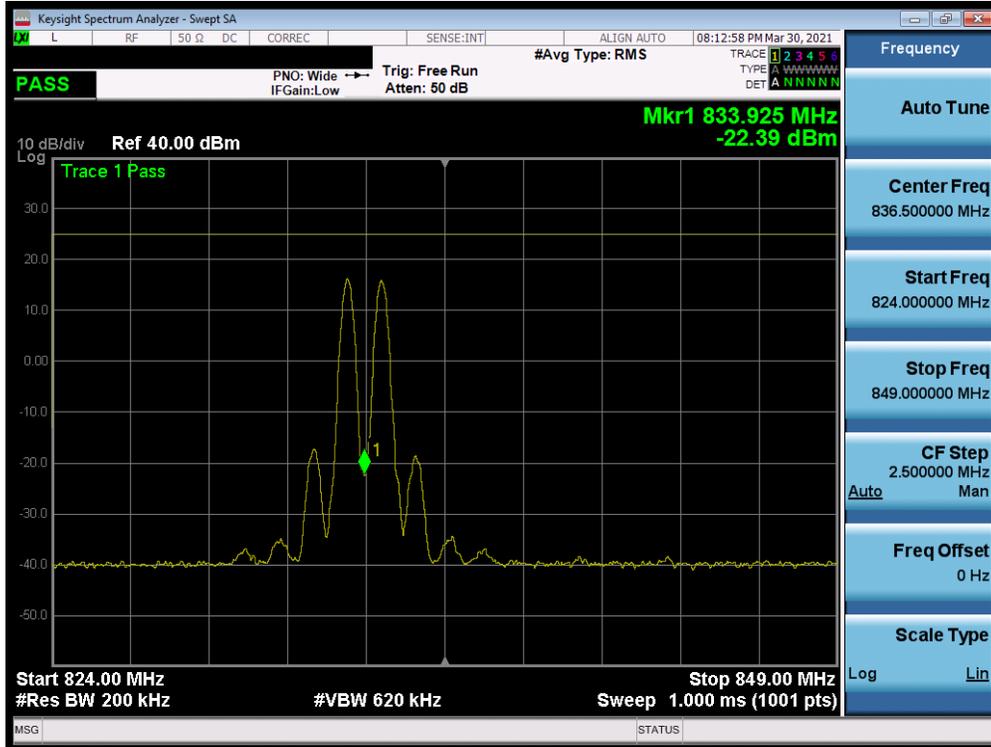
Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]				
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency		UL # RB	UL RB Offset		
Max	LTE B5	10MHz + 10MHz	QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	24.88		
				20475	831.5	1	49		20574	841.4	1	0	24.82		
				20600	844.0	1	0		20501	834.1	1	49	24.87		
			16-QAM	20450	829	50	0	16-QAM	20549	838.9	50	0	22.86		
				20450	829	50	0		20549	838.9	50	0	21.81		
				64-QAM	20450	829	50		0	64-QAM	20549	838.9	50	0	21.41
				256-QAM	20450	829	50		0	256-QAM	20549	838.9	50	0	19.83

Table 7-11. Conducted Powers (5B)

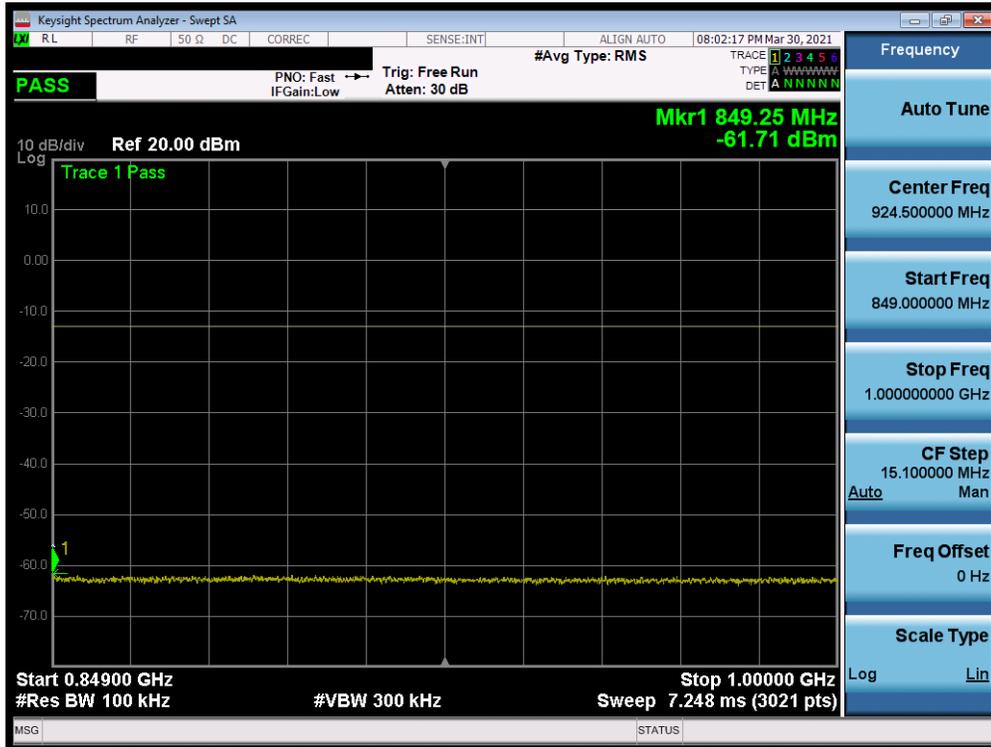


Plot 7-98. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 77 of 115

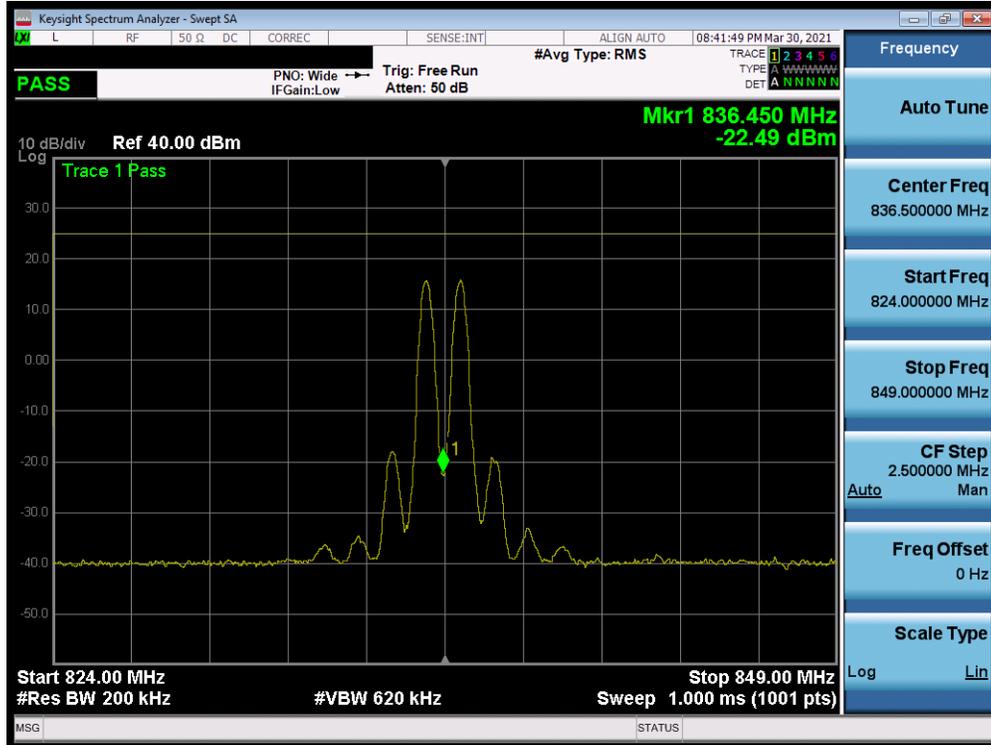


Plot 7-99. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

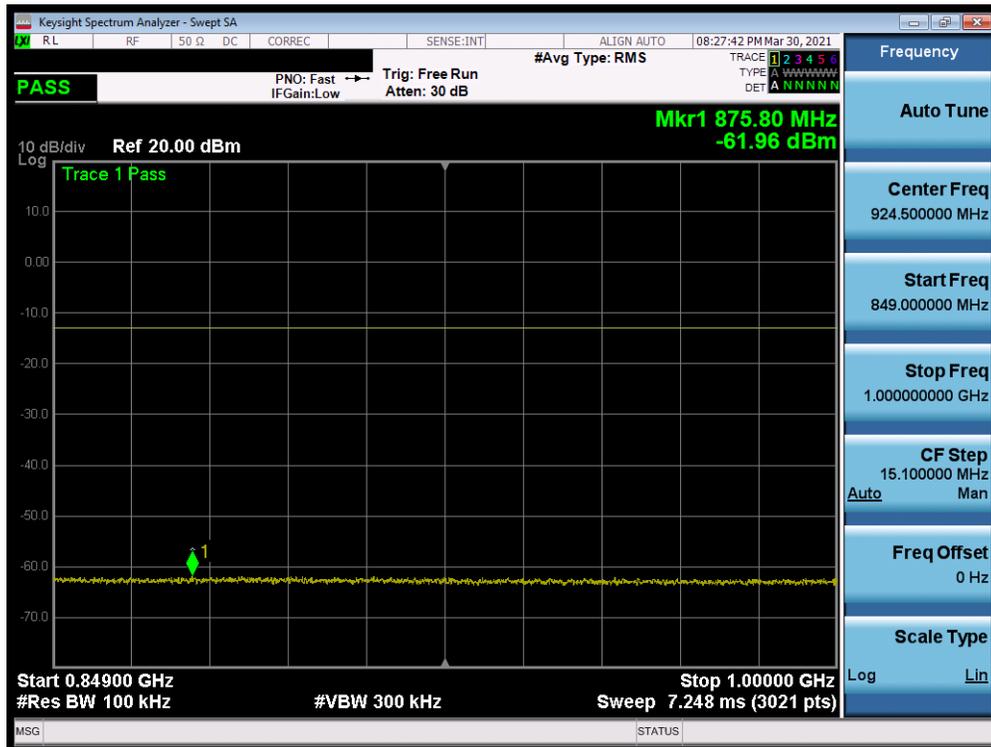


Plot 7-100. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 78 of 115

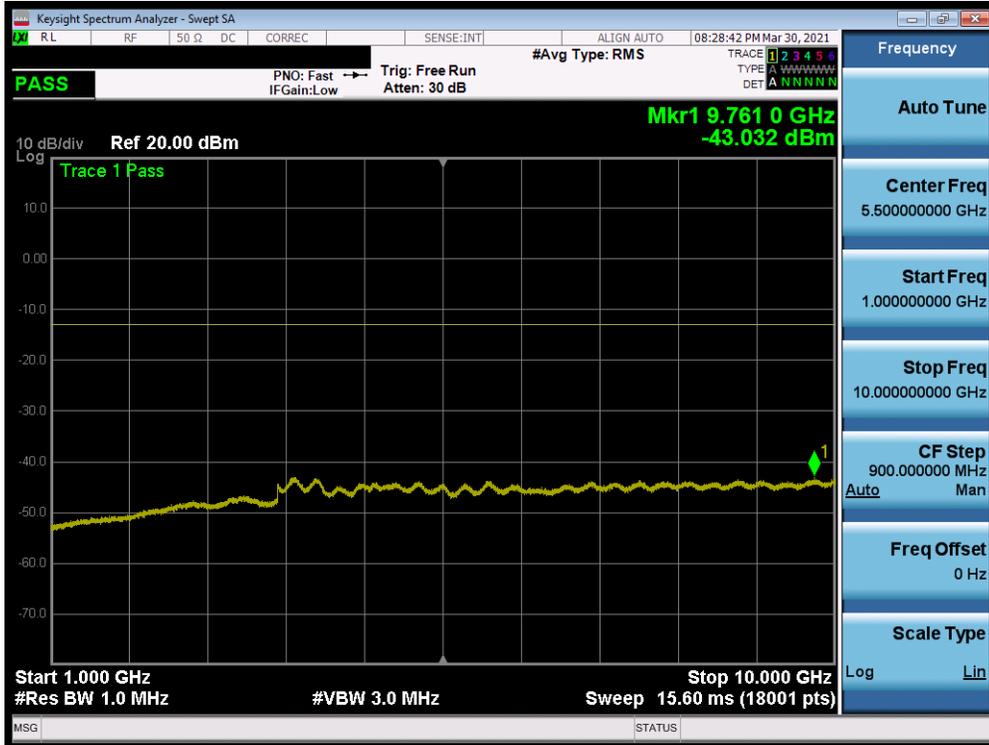


Plot 7-103. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Mid Channel)



Plot 7-104. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Mid Channel)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 80 of 115

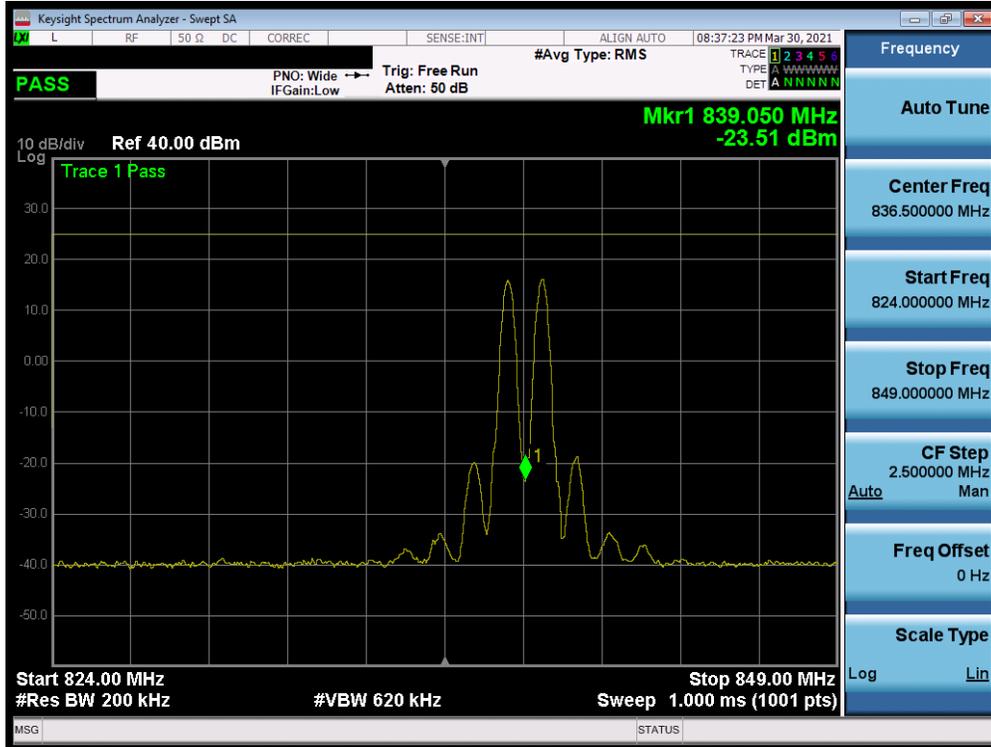


Plot 7-105. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Mid Channel)

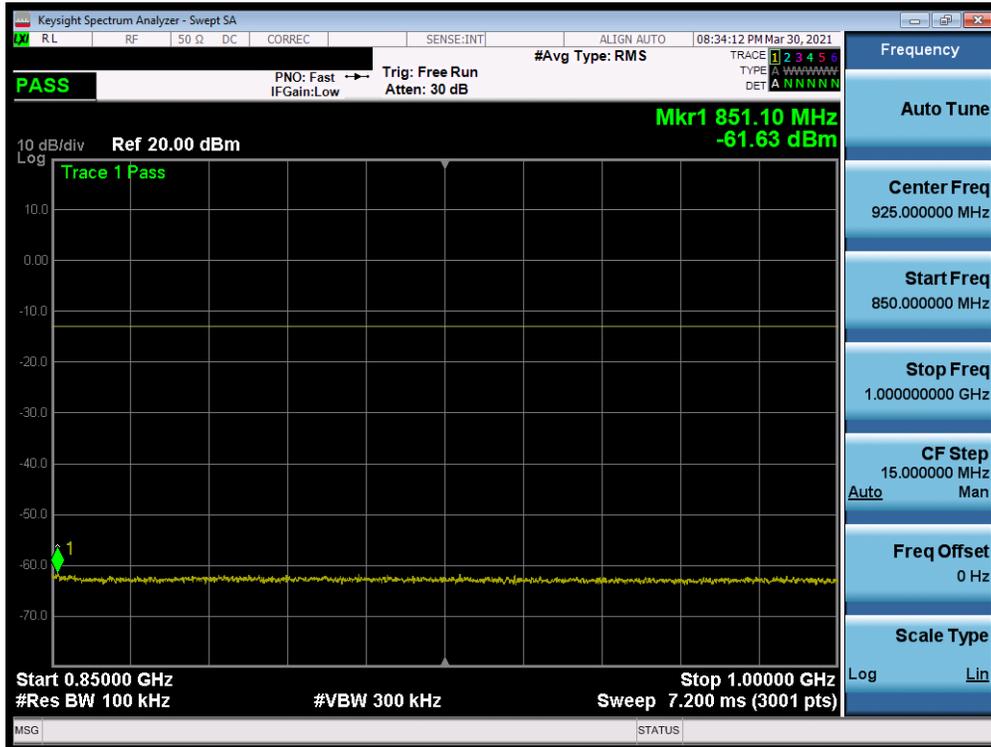


Plot 7-106. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/0 SCC 1/49 – High Channel)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 81 of 115

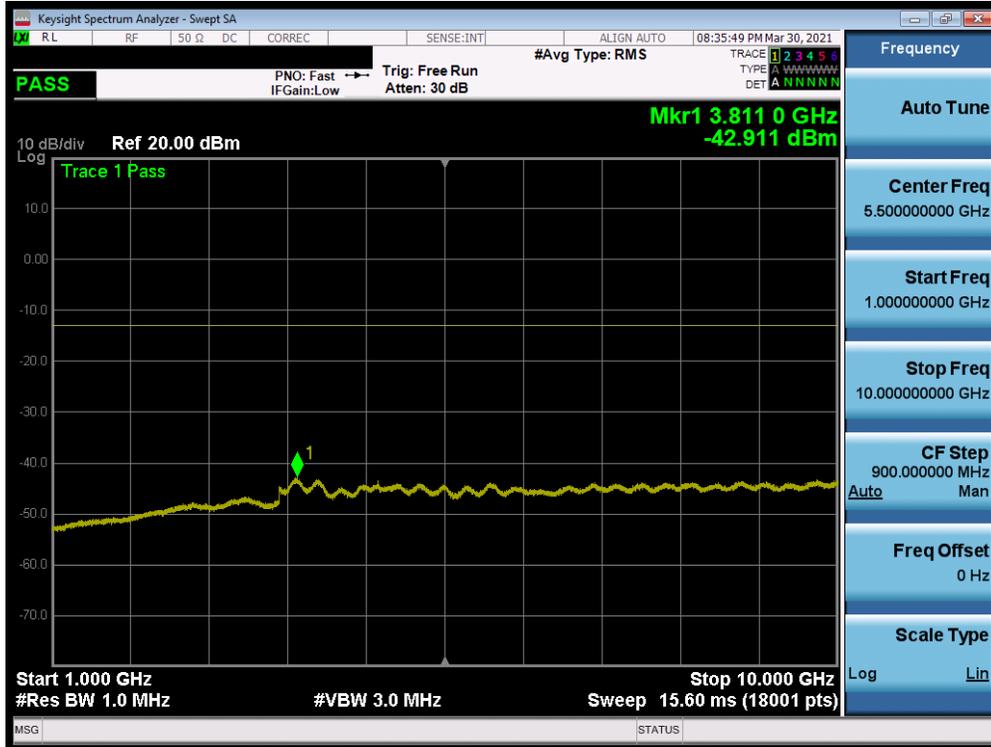


Plot 7-107. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/0 SCC 1/49 – High Channel)

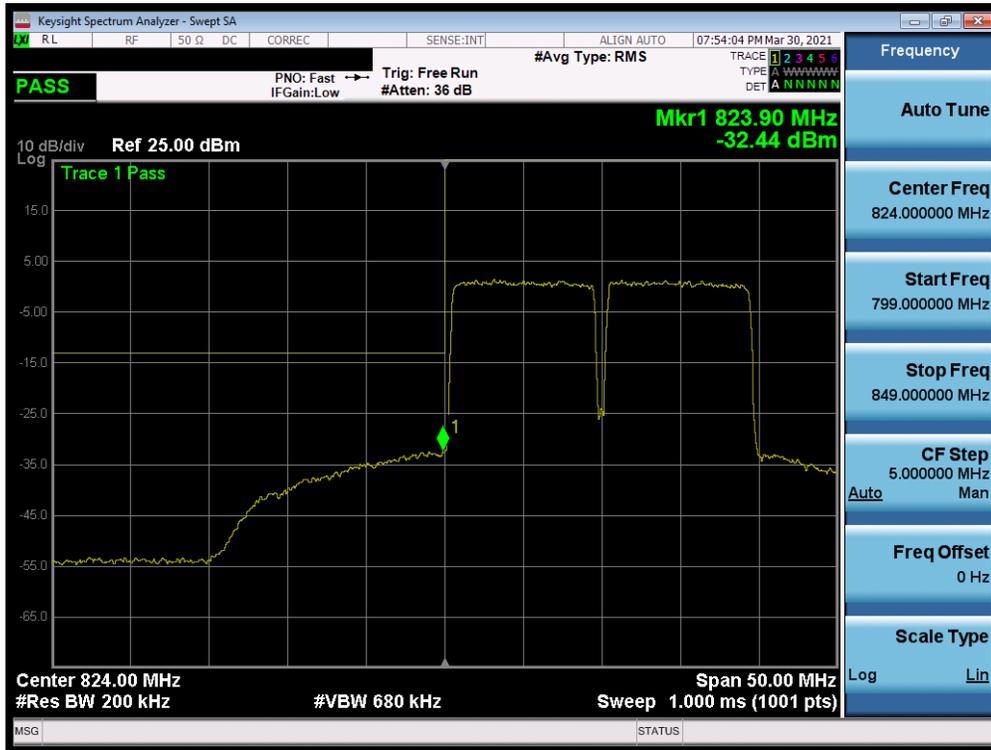


Plot 7-108. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/0 SCC 1/49 – High Channel)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 82 of 115

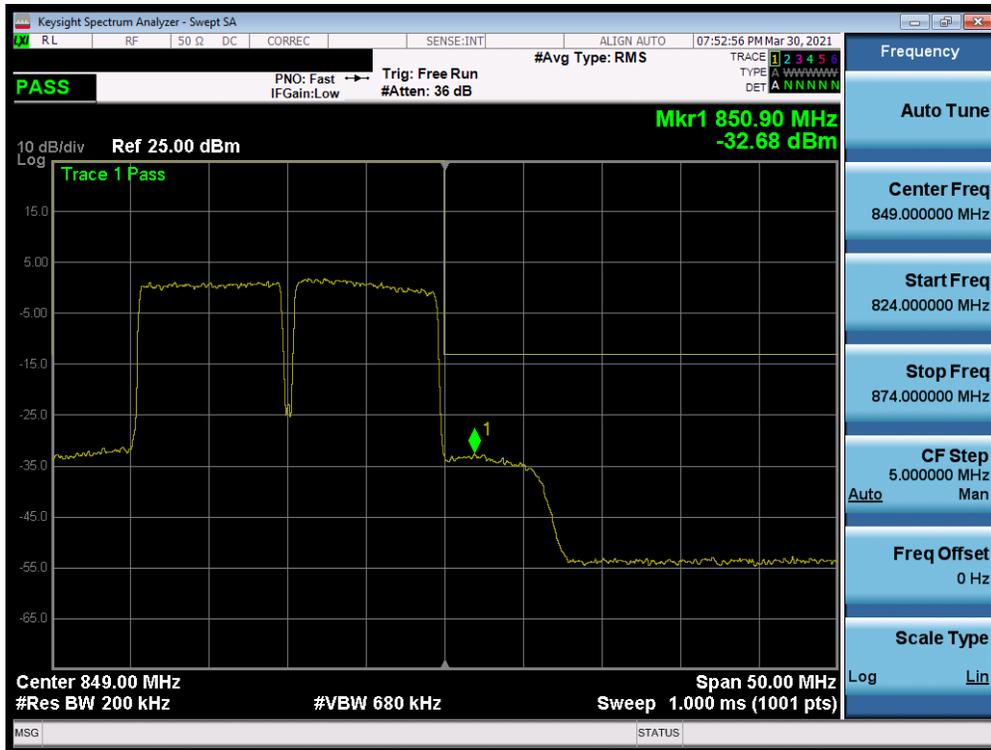


Plot 7-109. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/0 SCC 1/49 – High Channel)



Plot 7-110. Lower Band Edge Plot (Band 5 QPSK – PCC:10 MHz SCC:10 MHz – Full RB)

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Plot 7-111. Upper Band Edge Plot (Band 5 QPSK – PCC:10 MHz SCC:10 MHz – Full RB)

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7.7 Radiated Spurious Emissions Measurements

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

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

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Test Setup

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

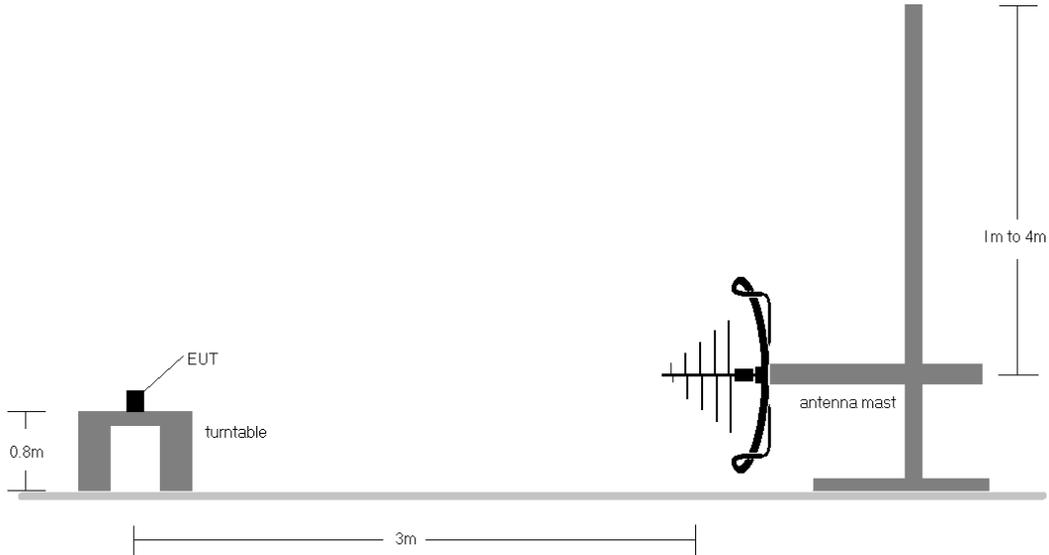


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

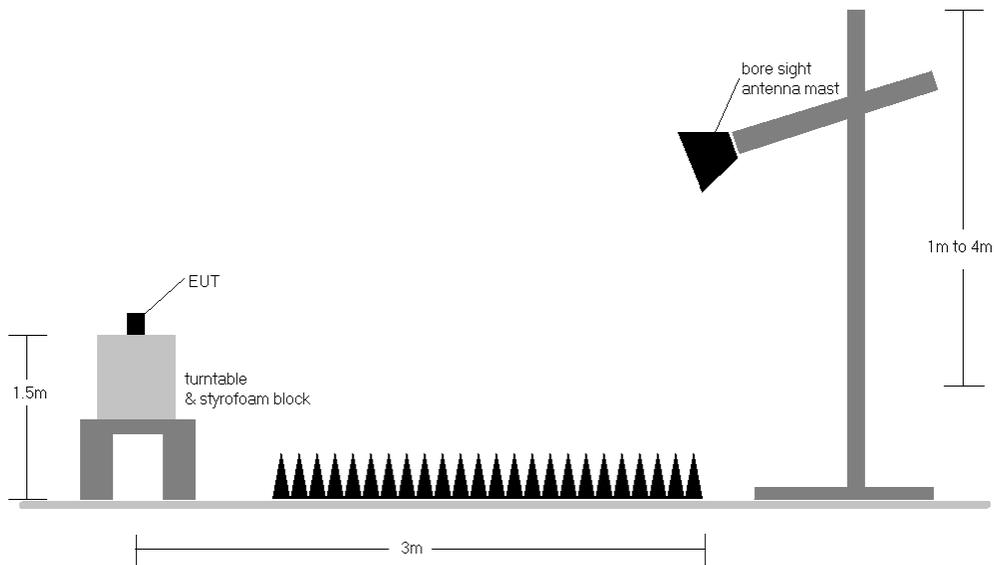


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

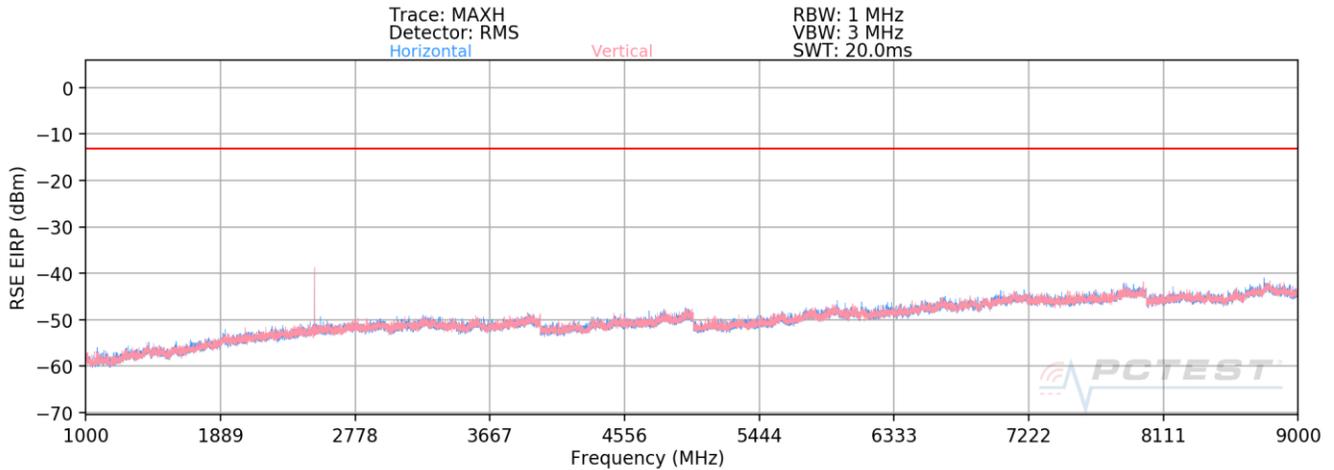
FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - b) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers is reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) For CDMA, this device was tested under all RC and SO combinations and the worst case is reported with RC3/SO55 with "All Up" power control bits.
- 5) 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.
- 6) This unit was tested with its standard battery..
- 7) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 8) 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.
- 9) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 10) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 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 emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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GSM/GPRS Cell AntA + AntB



Plot 7-112. Radiated Spurious Plot (GPRS Cell) – OPEN

Mode:	GPRS 1 Tx Slot
Channel:	128
Frequency (MHz):	824.2

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]
1648.4	V	244	44	-70.26	1.00	37.74	-57.52	-13.00	-44.52
2472.6	V	122	191	-59.48	5.29	52.81	-42.45	-13.00	-29.45
3296.8	V	-	-	-71.58	7.34	42.76	-52.50	-13.00	-39.50
4121.0	V	-	-	-72.33	8.05	42.72	-52.54	-13.00	-39.54
4945.2	V	-	-	-79.34	9.97	37.63	-57.62	-13.00	-44.62

Table 7-12. Radiated Spurious Data (GPRS Cell – Low Channel) - OPEN

Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	V	379	7	-70.27	1.17	37.90	-57.36	-13.00	-44.36
2509.8	V	128	12	-59.11	5.23	53.12	-42.13	-13.00	-29.13
3346.4	V	-	-	-72.00	7.12	42.12	-53.14	-13.00	-40.14
4183.0	V	-	-	-72.94	8.58	42.64	-52.61	-13.00	-39.61
5019.6	V	-	-	-71.99	10.73	45.74	-49.51	-13.00	-36.51

Table 7-13. Radiated Spurious Data (GPRS Cell – Mid Channel) - OPEN

FCC ID: A3LSMF926U	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

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]
1697.6	V	102	305	-70.40	1.81	38.41	-56.85	-13.00	-43.85
2546.4	V	236	163	-64.85	5.72	47.87	-47.39	-13.00	-34.39
3395.2	V	-	-	-72.02	7.28	42.26	-52.99	-13.00	-39.99
4244.0	V	-	-	-72.30	8.22	42.92	-52.33	-13.00	-39.33
5092.8	V	-	-	-73.44	10.31	43.87	-51.39	-13.00	-38.39

Table 7-14. Radiated Spurious Data (GPRS Cell – High Channel) – OPEN

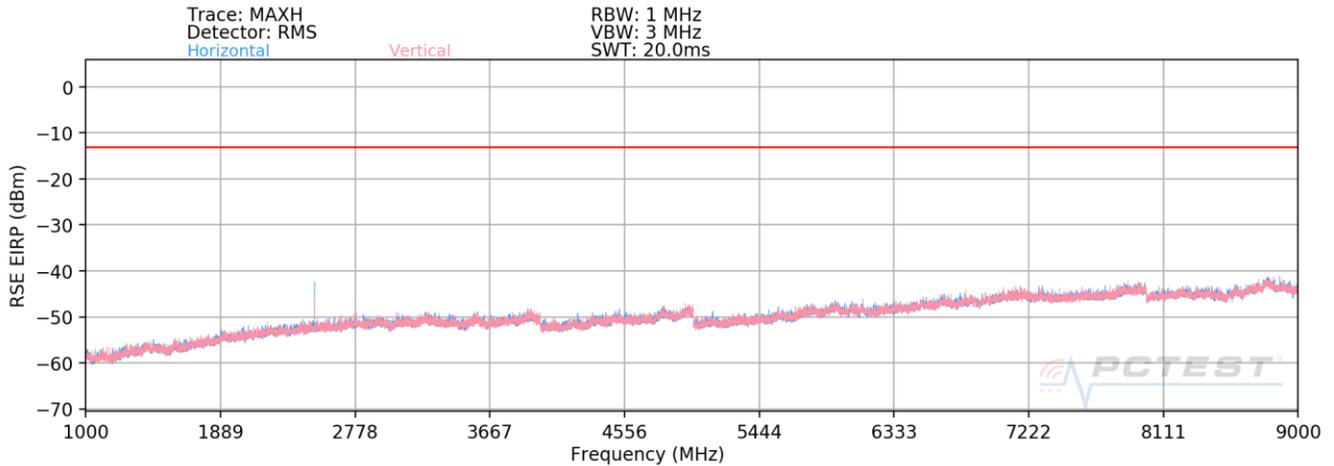
Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	V	195	16	-66.70	1.17	41.47	-53.79	-13.00	-40.79
2509.8	V	184	209	-60.29	5.23	51.94	-43.31	-13.00	-30.31
3346.4	V	-	-	-72.19	7.12	41.93	-53.33	-13.00	-40.33
4183.0	V	-	-	-71.92	8.58	43.66	-51.59	-13.00	-38.59
5019.6	V	-	-	-72.56	10.73	45.17	-50.08	-13.00	-37.08

Table 7-15. Radiated Spurious Data (GPRS Cell – Mid Channel) – WCP

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell AntA



Plot 7-113. Radiated Spurious Plot (GPRS Cell) - CLOSED

Mode:	GPRS 1 Tx Slot
Channel:	128
Frequency (MHz):	824.2

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]
1648.4	V	244	44	-70.26	1.00	37.74	-57.52	-13.00	-44.52
2472.6	V	122	191	-59.48	5.29	52.81	-42.45	-13.00	-29.45
3296.8	V	-	-	-71.58	7.34	42.76	-52.50	-13.00	-39.50
4121.0	V	-	-	-72.33	8.05	42.72	-52.54	-13.00	-39.54
4945.2	V	-	-	-79.34	9.97	37.63	-57.62	-13.00	-44.62

Table 7-16. Radiated Spurious Data (GPRS Cell – Low Channel) - CLOSED

Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	V	379	7	-70.27	1.17	37.90	-57.36	-13.00	-44.36
2509.8	V	128	12	-59.11	5.23	53.12	-42.13	-13.00	-29.13
3346.4	V	-	-	-72.00	7.12	42.12	-53.14	-13.00	-40.14
4183.0	V	-	-	-72.94	8.58	42.64	-52.61	-13.00	-39.61
5019.6	V	-	-	-71.99	10.73	45.74	-49.51	-13.00	-36.51

Table 7-17. Radiated Spurious Data (GPRS Cell – Mid Channel) - CLOSED

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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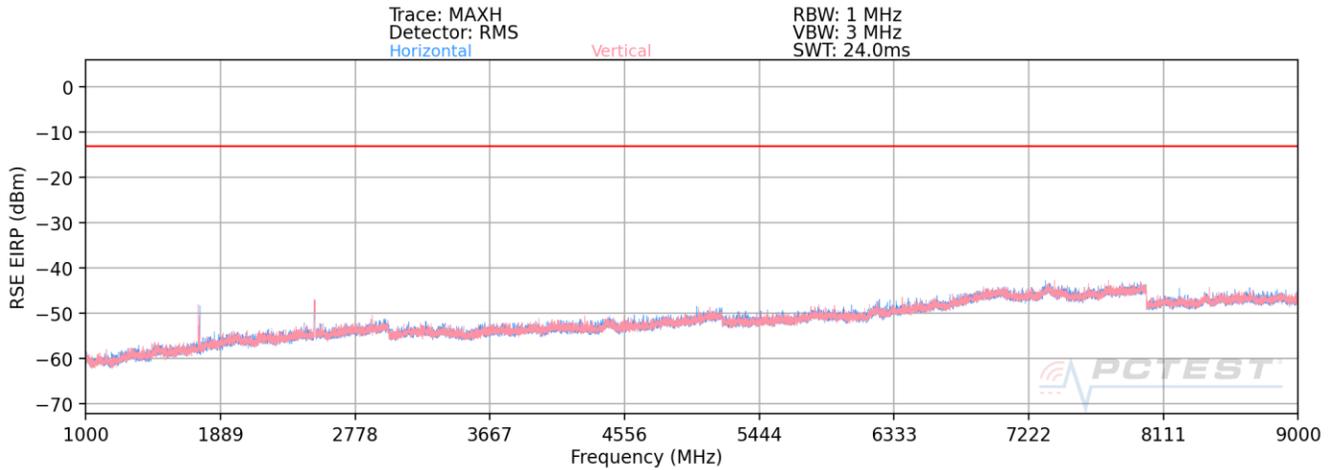
Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

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]
1697.6	V	102	305	-70.40	1.81	38.41	-56.85	-13.00	-43.85
2546.4	V	236	163	-64.85	5.72	47.87	-47.39	-13.00	-34.39
3395.2	V	-	-	-72.02	7.28	42.26	-52.99	-13.00	-39.99
4244.0	V	-	-	-72.30	8.22	42.92	-52.33	-13.00	-39.33
5092.8	V	-	-	-73.44	10.31	43.87	-51.39	-13.00	-38.39

Table 7-18. Radiated Spurious Data (GPRS Cell – High Channel) - CLOSED

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell AntA + AntB



Plot 7-114. Radiated Spurious Plot (WCDMA Cell) - OPEN

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.8	V	-	-	-69.94	-0.23	36.83	-58.43	-13.00	-45.43
2479.2	V	102	107	-63.09	3.43	47.34	-47.92	-13.00	-34.92
3305.6	V	-	-	-69.25	4.28	42.03	-53.23	-13.00	-40.23
4132.0	V	-	-	-69.72	5.80	43.08	-52.18	-13.00	-39.18
4958.4	V	-	-	-69.65	7.02	44.37	-50.89	-13.00	-37.89

Table 7-19. Radiated Spurious Data (WCDMA Cell – Low Channel) - OPEN

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	V	-	-	-67.73	-0.23	39.04	-56.22	-13.00	-43.22
2509.8	V	100	104	-61.31	3.55	49.24	-46.02	-13.00	-33.02
3346.4	V	-	-	-69.59	5.04	42.45	-52.80	-13.00	-39.80
4183.0	V	-	-	-69.90	5.76	42.86	-52.40	-13.00	-39.40
5019.6	V	-	-	-70.08	6.47	43.39	-51.87	-13.00	-38.87

Table 7-20. Radiated Spurious Data (WCDMA Cell – Mid Channel) - OPEN

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.2	V	-	-	-68.52	0.02	38.50	-56.76	-13.00	-43.76
2539.8	V	169	97	-63.61	3.56	46.95	-48.31	-13.00	-35.31
3386.4	V	-	-	-69.65	4.93	42.28	-52.98	-13.00	-39.98
4233.0	V	-	-	-70.19	5.60	42.41	-52.85	-13.00	-39.85
5079.6	V	-	-	-69.91	7.20	44.29	-50.97	-13.00	-37.97

Table 7-21. Radiated Spurious Data (WCDMA Cell – High Channel) – OPEN

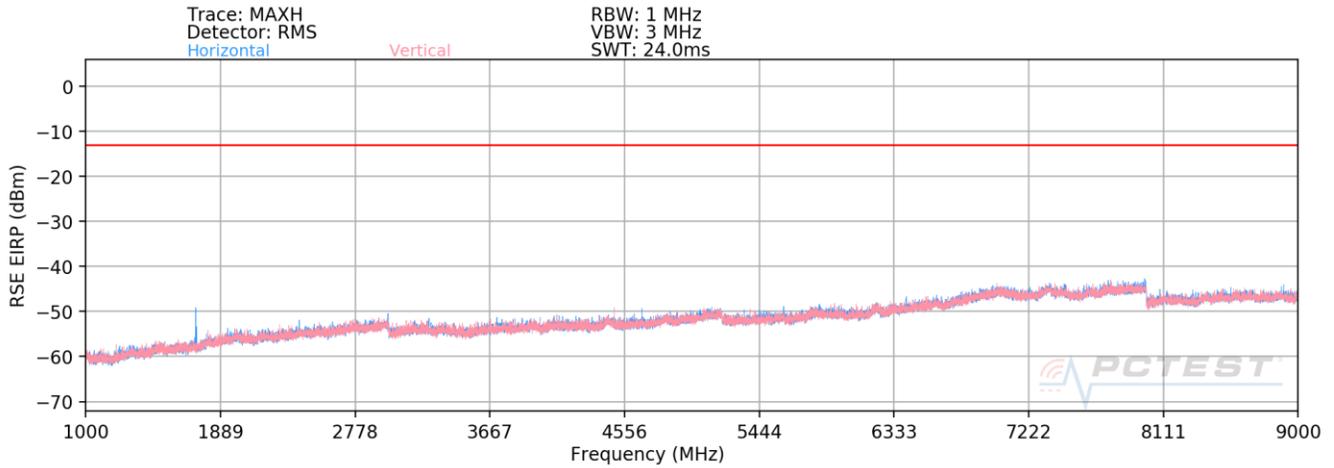
Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	V	-	-	-67.28	-0.23	39.49	-55.77	-13.00	-42.77
2509.8	V	207	339	-63.00	3.55	47.55	-47.71	-13.00	-34.71
3346.4	V	-	-	-69.62	5.04	42.42	-52.83	-13.00	-39.83
4183.0	V	-	-	-70.03	5.76	42.73	-52.53	-13.00	-39.53
5019.6	V	-	-	-69.51	6.47	43.96	-51.30	-13.00	-38.30

Table 7-22. Radiated Spurious Data (WCDMA Cell – Mid Channel) – WCP

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell AntA



Plot 7-115. Radiated Spurious Plot (WCDMA Cell) - CLOSED

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.8	H	-	-	-69.01	1.02	39.01	-56.24	-13.00	-43.24
2479.2	H	-	-	-68.00	5.34	44.34	-50.91	-13.00	-37.91
3305.6	H	-	-	-67.49	7.21	46.72	-48.54	-13.00	-35.54

Table 7-23. Radiated Spurious Data (WCDMA Cell – Low Channel) - CLOSED

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	H	-	-	-69.01	1.17	39.16	-56.10	-13.00	-43.10
2509.8	H	-	-	-67.45	5.23	44.78	-50.47	-13.00	-37.47
3346.4	H	-	-	-66.15	7.12	47.97	-47.29	-13.00	-34.29

Table 7-24. Radiated Spurious Data (WCDMA Cell – Mid Channel) – CLOSED

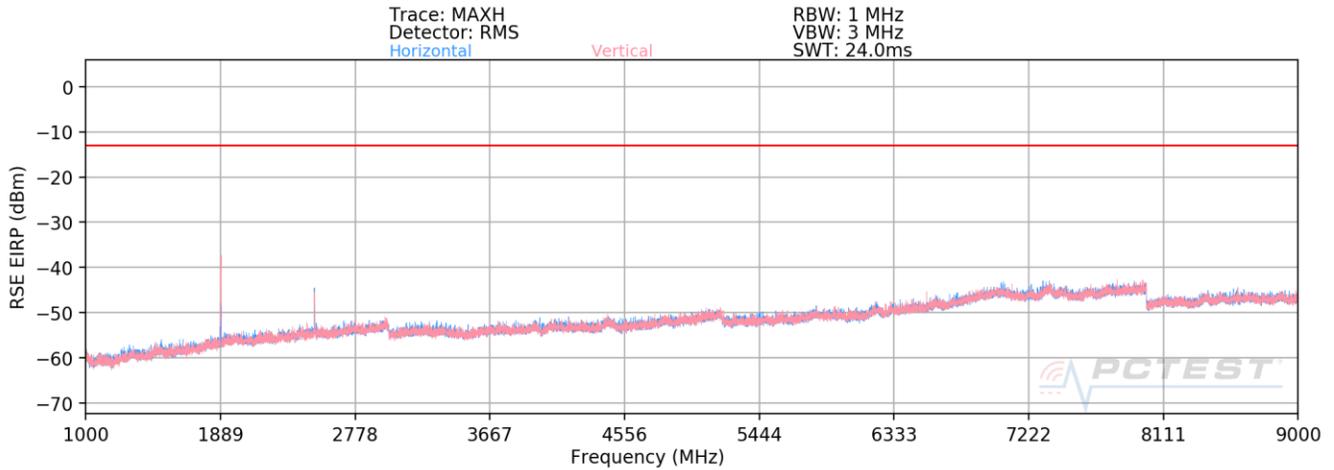
Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.2	H	-	-	-68.96	1.62	39.66	-55.59	-13.00	-42.59
2539.8	H	-	-	-66.71	5.77	46.06	-49.20	-13.00	-36.20
3386.4	H	-	-	-67.22	7.12	46.90	-48.36	-13.00	-35.36

Table 7-25. Radiated Spurious Data (WCDMA Cell – High Channel) – CLOSED

FCC ID: A3LSMF926U	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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CDMA Cell



Plot 7-116. Radiated Spurious Plot (CDMA Cell) - OPEN

Mode:	CDMA
Channel:	1013
Frequency (MHz):	824.7

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]
1649.40	V	-	-	-67.79	-0.18	39.03	-56.23	-13.00	-43.23
2474.10	V	101	108	-57.40	3.46	53.06	-42.20	-13.00	-29.20
3298.80	V	-	-	-68.66	4.17	42.51	-52.74	-13.00	-39.74
4123.50	V	-	-	-70.19	5.80	42.61	-52.65	-13.00	-39.65
4948.20	V	-	-	-70.65	7.07	43.42	-51.84	-13.00	-38.84

Table 7-26. Radiated Spurious Data (CDMA Cell – Low Channel) - OPEN

Mode:	CDMA
Channel:	384
Frequency (MHz):	836.52

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.04	V	-	-	-68.04	-0.23	38.73	-56.53	-13.00	-43.53
2509.56	V	101	211	-59.06	3.55	51.49	-43.77	-13.00	-30.77
3346.08	V	-	-	-68.53	5.04	43.51	-51.75	-13.00	-38.75
4182.60	V	-	-	-69.27	5.76	43.49	-51.76	-13.00	-38.76
5019.12	V	-	-	-69.98	6.47	43.49	-51.77	-13.00	-38.77

Table 7-27. Radiated Spurious Data (CDMA Cell – Mid Channel) - OPEN

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 95 of 115

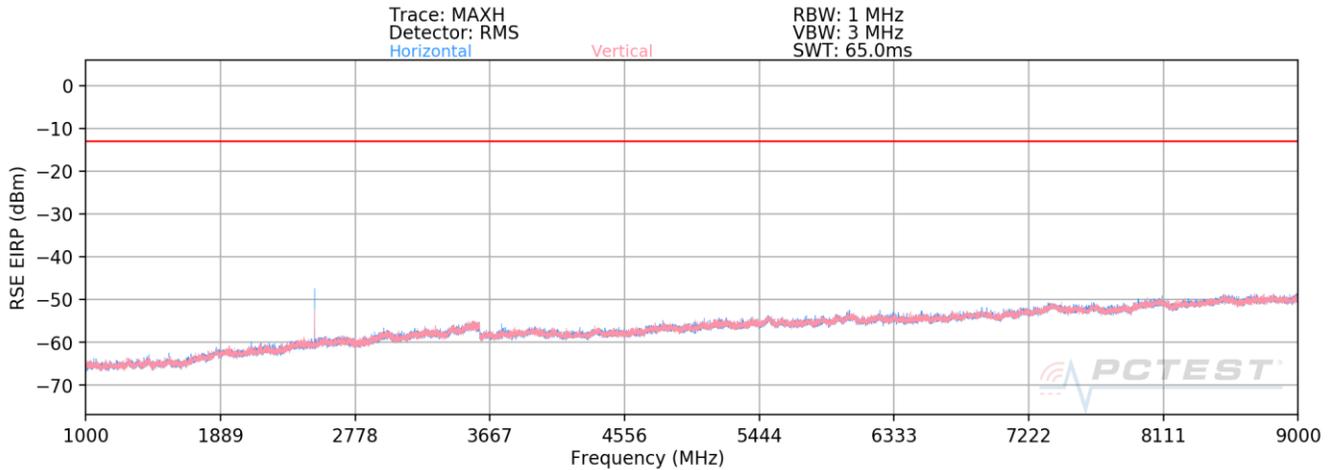
Mode:	CDMA
Channel:	777
Frequency (MHz):	848.31

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]
1696.62	V	-	-	-67.56	0.02	39.46	-55.80	-13.00	-42.80
2544.93	V	158	108	-57.26	3.51	53.25	-42.01	-13.00	-29.01
3393.24	V	-	-	-69.13	4.81	42.68	-52.58	-13.00	-39.58
4241.55	V	-	-	-70.13	5.64	42.51	-52.75	-13.00	-39.75
5089.86	V	-	-	-70.76	7.29	43.53	-51.73	-13.00	-38.73

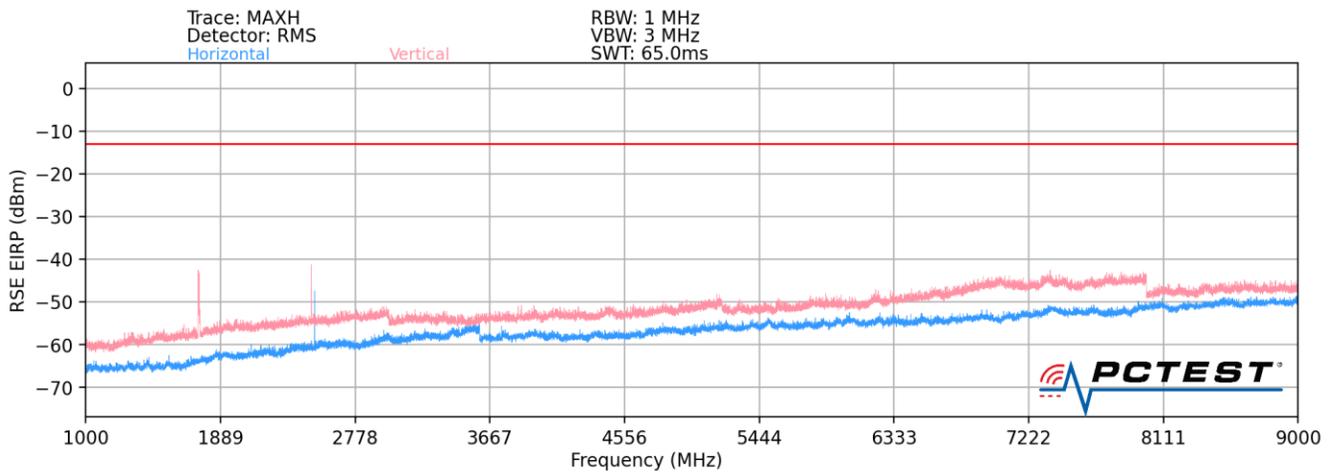
Table 7-28. Radiated Spurious Data (CDMA Cell – High Channel) - OPEN

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 96 of 115

LTE Band 26/5 – AntA + AntB



Plot 7-117. Radiated Spurious Plot (LTE Band 26/5) – OPEN



Plot 7-118. Radiated Spurious Plot (LTE Band 26/5) - CLOSED

Bandwidth (MHz):	10
Frequency (MHz):	829.0
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]
1658.0	H	146	158	-75.43	-5.58	25.99	-69.27	-13.00	-56.27
2487.0	H	140	142	-56.88	-2.55	47.57	-47.69	-13.00	-34.69
3316.0	H	-	-	-77.44	0.54	30.10	-65.16	-13.00	-52.16
4145.0	H	-	-	-78.58	1.77	30.19	-65.07	-13.00	-52.07

Table 7-29. Radiated Spurious Data (LTE Band 26/5 – Low Channel) - OPEN

FCC ID: A3LSMF926U	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset	Page 97 of 115

Bandwidth (MHz):	10
Frequency (MHz):	836.5
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]
1673.0	H	142	147	-74.94	-5.40	26.66	-68.60	-13.00	-55.60
2509.5	H	215	142	-57.57	-2.54	46.89	-48.37	-13.00	-35.37
3346.0	H	-	-	-77.26	0.30	30.04	-65.21	-13.00	-52.21
4182.5	H	-	-	-78.29	2.02	30.73	-64.53	-13.00	-51.53

Table 7-30. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) - OPEN

Bandwidth (MHz):	10
Frequency (MHz):	844.0
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]
1688.00	H	152	148	-75.12	-5.17	26.71	-68.55	-13.00	-55.55
2532.00	H	129	135	-58.46	-1.83	46.71	-48.55	-13.00	-35.55
3376.00	H	-	-	-77.74	0.30	29.56	-65.69	-13.00	-52.69
4220.00	H	-	-	-78.35	1.85	30.50	-64.75	-13.00	-51.75

Table 7-31. Radiated Spurious Data (LTE Band 26/5 – High Channel) - OPEN

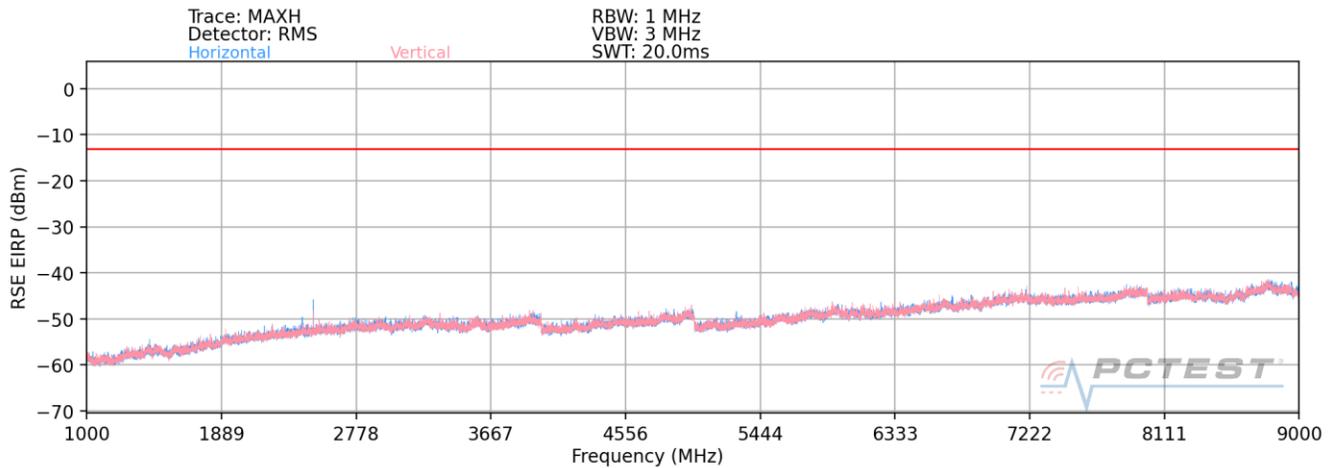
Bandwidth (MHz):	15
Frequency (MHz):	836.5
RB / Offset:	1 / 36
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	V	296	75	-64.60	-5.40	37.00	-58.26	-13.00	-45.26
2509.5	V	143	337	-56.52	-2.54	47.94	-47.32	-13.00	-34.32
3346.0	V	-	-	-63.00	0.30	44.30	-50.95	-13.00	-37.95
4182.5	V	-	-	-62.71	2.02	46.31	-48.95	-13.00	-35.95

Table 7-32. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) - WCP

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 98 of 115

LTE Band 26/5 – AntA



Plot 7-119. Radiated Spurious Plot (LTE Band 26/5) - CLOSED

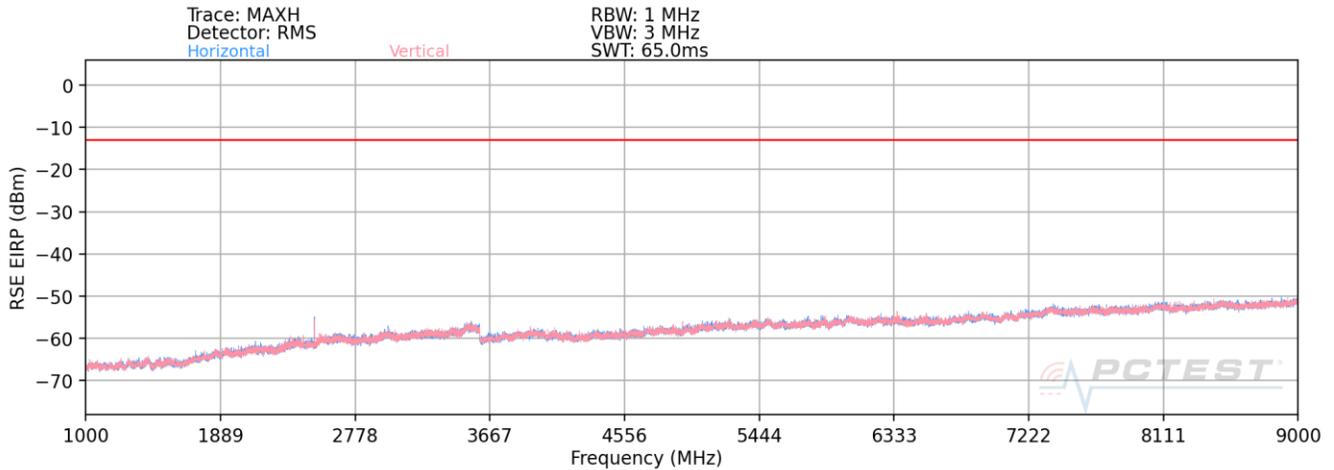
Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 25

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]
1673.0	H	142	147	-74.94	-5.40	26.66	-68.60	-13.00	-55.60
2509.5	H	215	142	-57.57	-2.54	46.89	-48.37	-13.00	-35.37
3346.0	H	-	-	-77.26	0.30	30.04	-65.21	-13.00	-52.21
4182.5	H	-	-	-78.29	2.02	30.73	-64.53	-13.00	-51.53

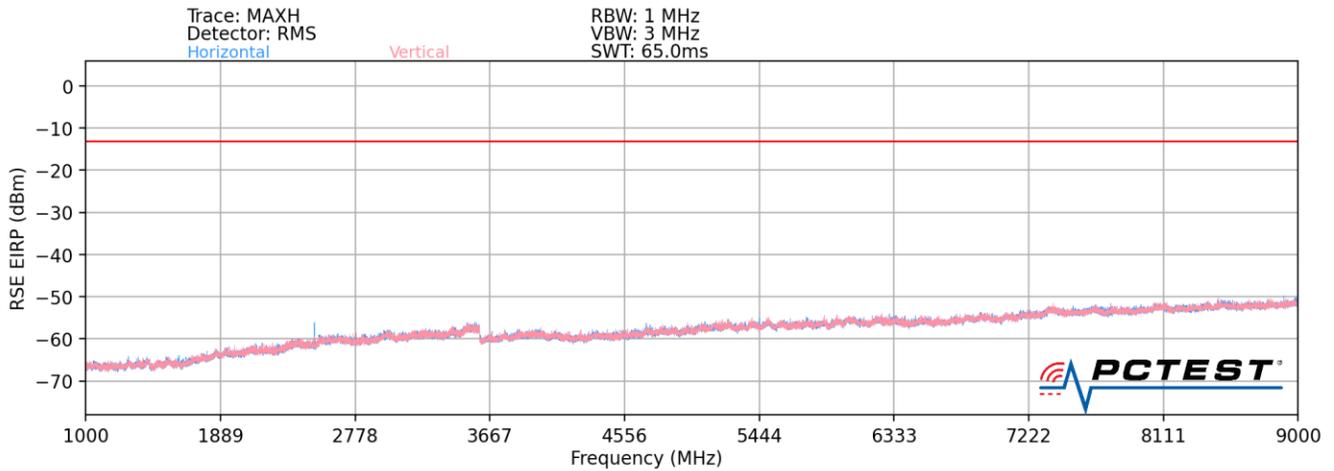
Table 7-33. Radiated Spurious Data (LTE Band 26/5) - CLOSED

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 99 of 115

NR Band n5 – AntA + AntB



Plot 7-120. Radiated Spurious Plot (NR Band n5) – OPEN



Plot 7-121. Radiated Spurious Plot (NR Band n5) - CLOSED

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	232	169	-74.61	-5.47	26.92	-68.34	-13.00	-55.34
2502.0	H	116	250	-62.06	-2.60	42.34	-52.91	-13.00	-39.91
3336.0	H	-	-	-74.52	0.33	32.81	-62.44	-13.00	-49.44
4170.0	H	-	-	-77.06	1.95	31.89	-63.37	-13.00	-50.37

Table 7-34. Radiated Spurious Data (NR Band n5 – Low Channel) – OPEN

FCC ID: A3LSMF926U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset	Page 100 of 115

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	-	-	-75.24	-5.40	26.36	-68.90	-13.00	-55.90
2509.5	H	131	3	-56.75	-2.54	47.71	-47.55	-13.00	-34.55
3346.0	H	-	-	-74.57	0.30	32.73	-62.52	-13.00	-49.52
4182.5	H	-	-	-76.69	2.02	32.33	-62.93	-13.00	-49.93

Table 7-35. Radiated Spurious Data (NR Band n5 – Mid Channel) – OPEN

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	-	-	-75.33	-5.33	26.34	-68.92	-13.00	-55.92
2517.0	H	161	337	-67.59	-2.33	37.08	-58.17	-13.00	-45.17
3356.0	H	-	-	-74.56	0.28	32.72	-62.54	-13.00	-49.54
4195.0	H	378	319	-75.50	1.95	33.45	-61.81	-13.00	-48.81
5034.0	H	-	-	-77.63	4.36	33.73	-61.53	-13.00	-48.53
5873.0	H	-	-	-77.88	6.35	35.47	-59.79	-13.00	-46.79

Table 7-36. Radiated Spurious Data (NR Band n5 – High Channel) – OPEN

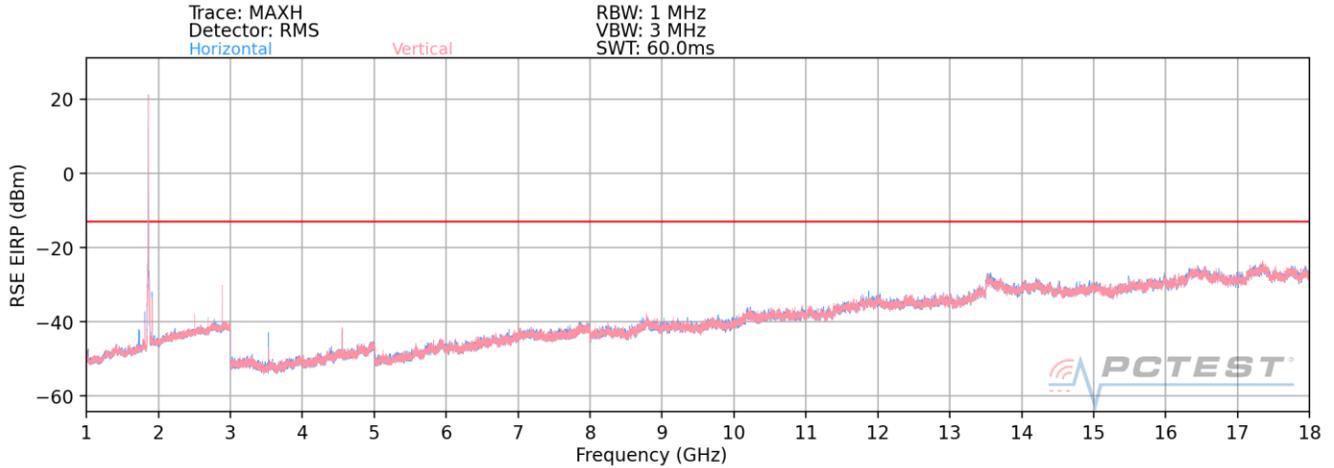
Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 50
Mode:	Standalone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	-	-	-52.32	10.38	65.06	-30.19	-13.00	-17.19
2509.5	H	-	-	-51.36	14.68	70.32	-24.94	-13.00	-11.94
3346.0	H	-	-	-51.42	16.68	72.26	-23.00	-13.00	-10.00
4182.5	H	-	-	-52.00	17.93	72.93	-22.33	-13.00	-9.33

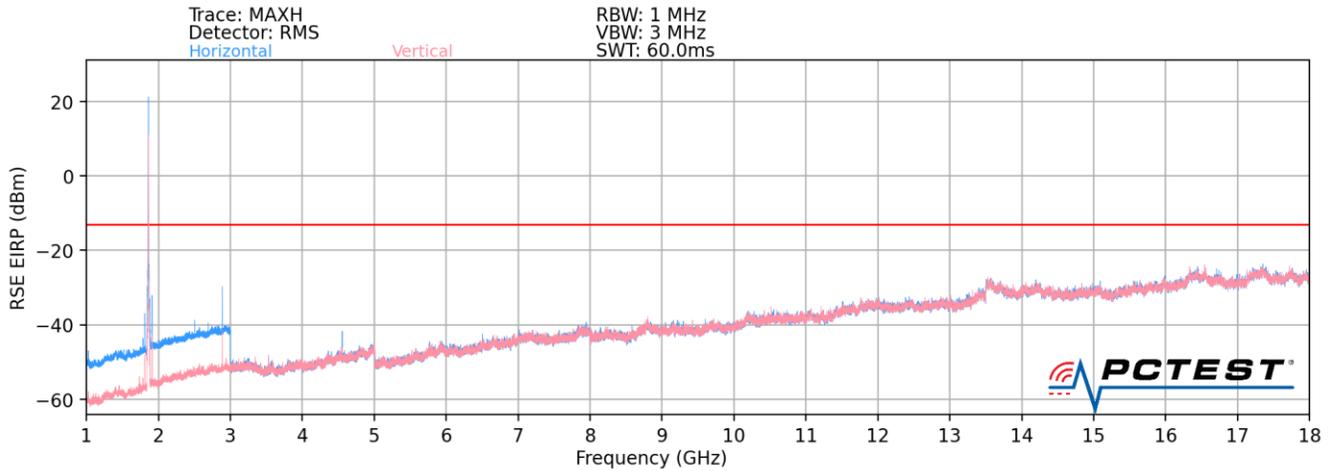
Table 7-37. Radiated Spurious Data (NR Band n5 – Mid Channel) – OPEN - WCP

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5 – B2



Plot 7-122. Radiated Spurious Plot (NR Band n5 + B2) – OPEN



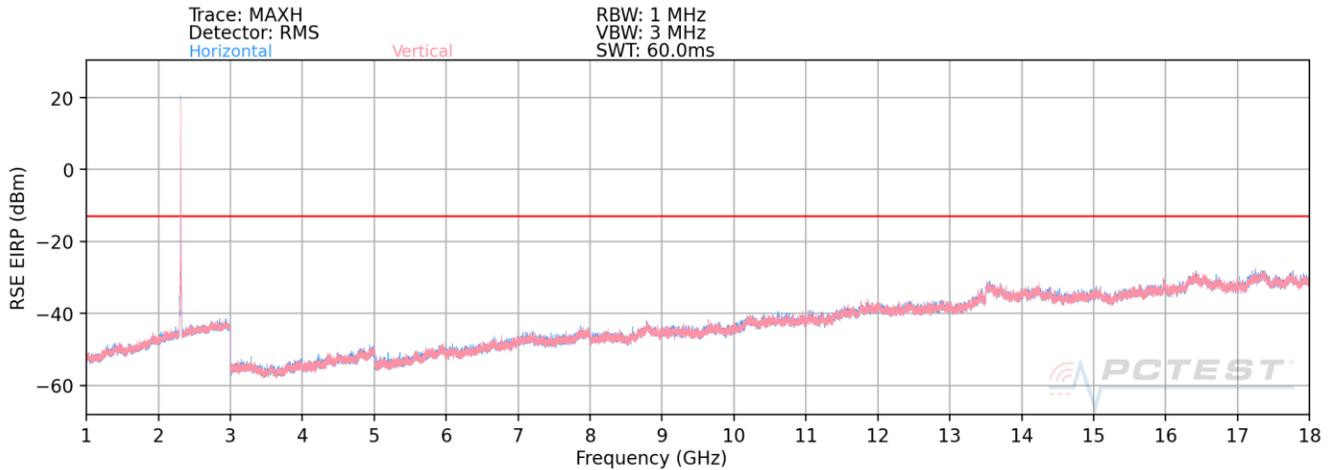
Plot 7-123. Radiated Spurious Plot (NR Band n5 + B2) - CLOSED

Bandwidth (MHz):	20 / 20								
Frequency (MHz):	1860 / 834								
RB / Offset:	1 / 50 & 1 / 53								
Mode:	EN-DC								
Anchor Band:	B2								
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]
1218.0	H	-	-	-48.73	7.56	65.83	-29.43	-13.00	-16.43
2244.0	H	-	-	-47.53	13.50	72.97	-22.29	-13.00	-9.29
2886.0	H	155	67	-47.04	15.26	75.22	-20.04	-13.00	-7.04
3270.0	H	-	-	-48.20	7.75	66.55	-28.71	-13.00	-15.71

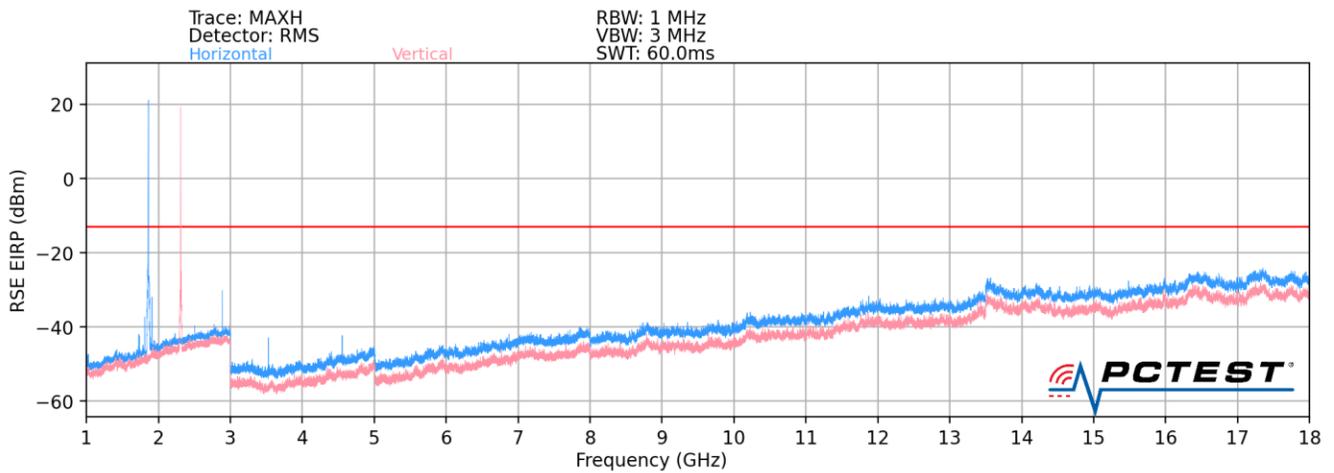
Table 7-38. Radiated Spurious Data (NR Band n5 + B2) – OPEN

FCC ID: A3LSMF926U	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5 – B30



Plot 7-124. Radiated Spurious Plot (NR Band n5 + B30) – OPEN



Plot 7-125. Radiated Spurious Plot (NR Band n5 + B30) - CLOSED

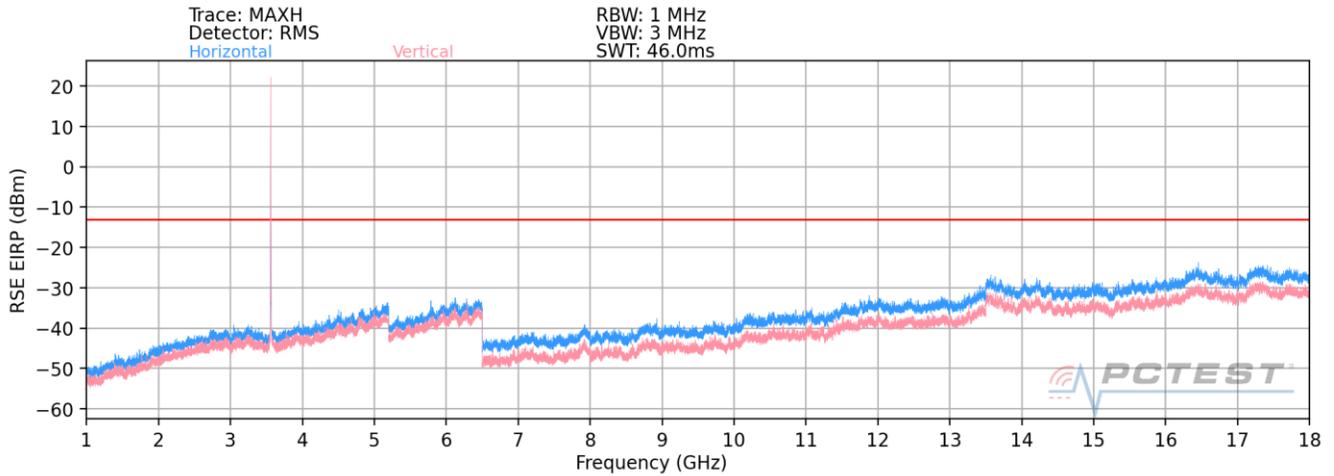
Bandwidth (MHz):	10 & 20
Frequency (MHz):	2310 / 834
RB / Offset:	1 / 25 & 1 / 53
Mode:	EN-DC
Anchor Band:	30

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]
2118.0	H	-	-	-58.22	3.99	52.77	-42.49	-13.00	-29.49
3594.0	H	-	-	-59.24	8.35	56.11	-39.15	-13.00	-26.15
3786.0	H	-	-	-62.11	7.67	52.56	-42.70	-13.00	-29.70

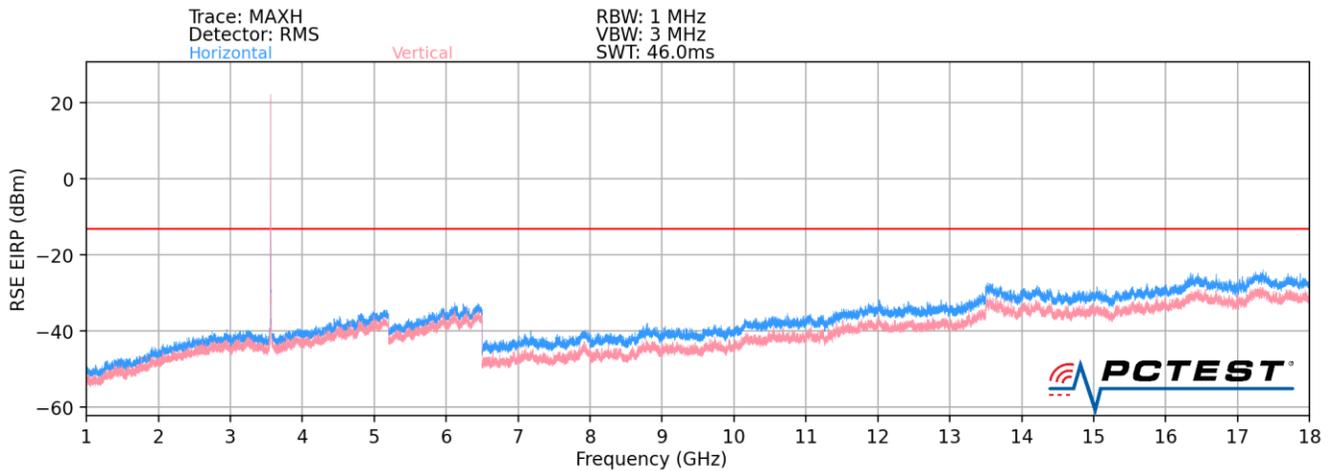
Table 7-39. Radiated Spurious Data (NR Band n5 + B30) – OPEN

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5 – B48



Plot 7-126. Radiated Spurious Plot (NR Band n5 + B48) – OPEN



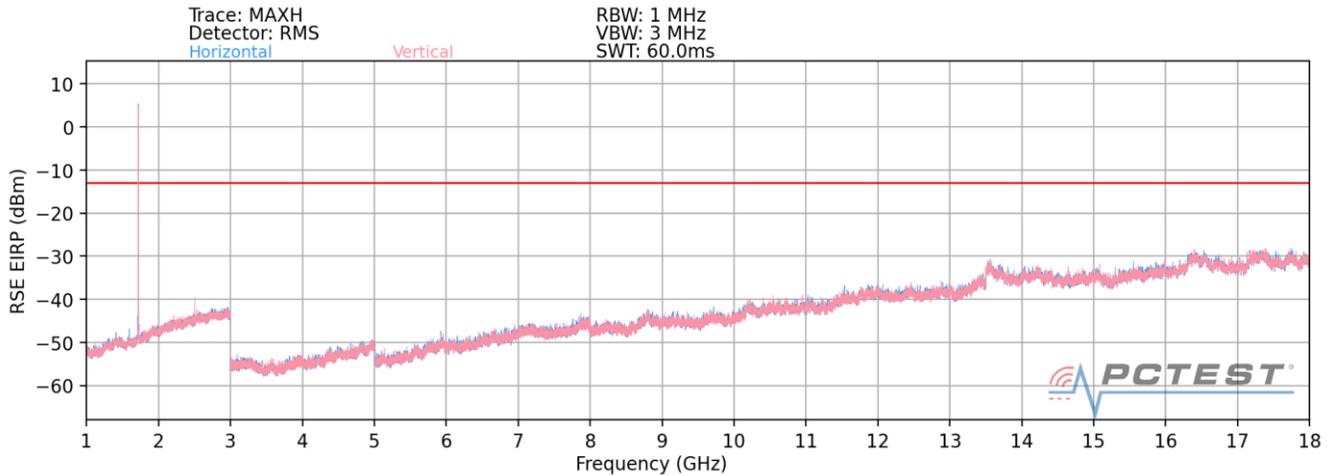
Plot 7-127. Radiated Spurious Plot (NR Band n5 + B48) - CLOSED

Bandwidth (MHz):	20 / 20								
Frequency (MHz):	3560 / 834								
RB / Offset:	1 / 50 & 1 / 53								
Mode:	EN-DC								
Anchor Band:	48								
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]
1892.0	H	-	-	-68.00	10.13	49.13	-46.13	-13.00	-33.13
4618.0	H	-	-	-66.42	15.60	56.18	-39.08	-13.00	-26.08
6286.0	H	-	-	-74.33	18.88	51.55	-43.71	-13.00	-30.71
7344.0	H	-	-	-80.21	21.86	48.65	-46.61	-13.00	-33.61

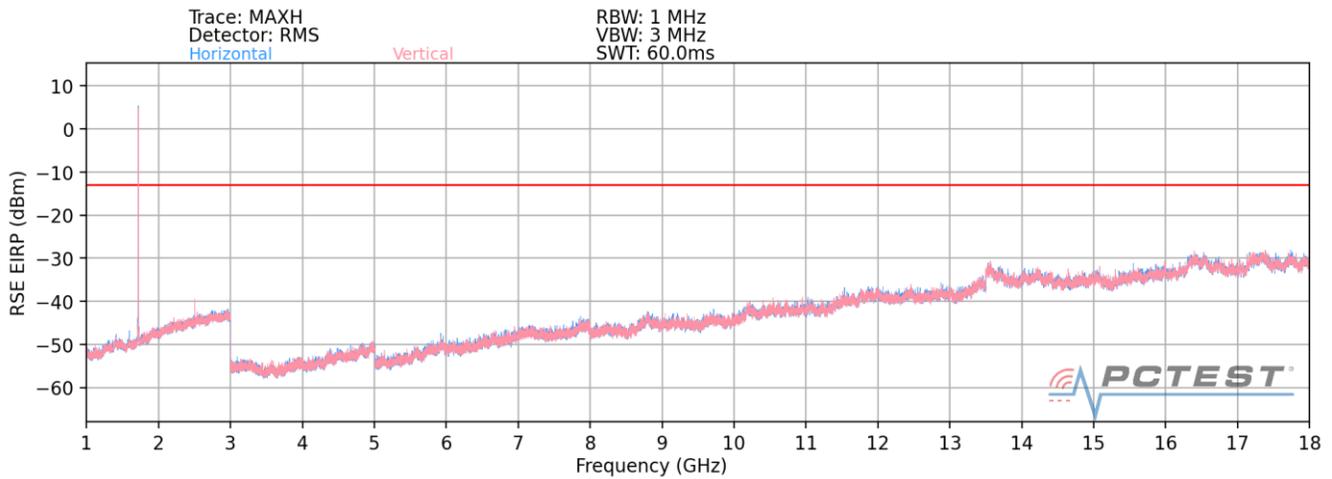
Table 7-40. Radiated Spurious Data (NR Band n5 + B48) – OPEN

FCC ID: A3LSMF926U	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5 – B66



Plot 7-128. Radiated Spurious Plot (NR Band n5 + B66) – OPEN



Plot 7-129. Radiated Spurious Plot (NR Band n5 + B66) - CLOSED

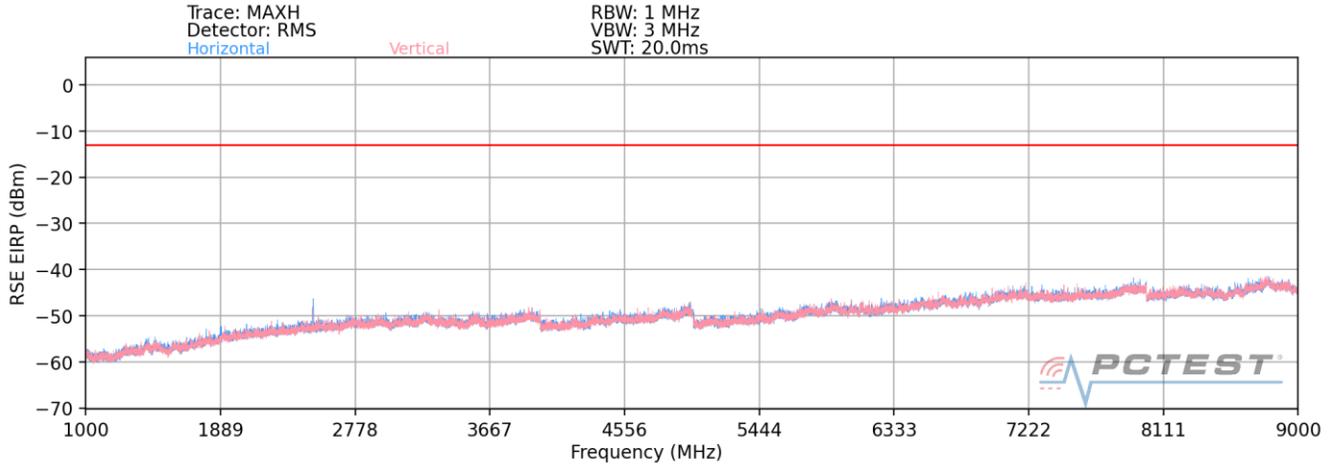
Bandwidth (MHz):	20 / 20
Frequency (MHz):	1745 / 834
RB / Offset:	1 / 50 & 1 / 53
Mode:	EN-DC
Anchor Band:	66

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]
1899.0	H	-	-	-48.83	12.62	70.79	-24.47	-13.00	-11.47
2656.0	H	-	-	-49.22	14.67	72.45	-22.81	-13.00	-9.81
2810.0	H	-	-	-48.91	15.39	73.48	-21.78	-13.00	-8.78
3567.0	H	-	-	-49.91	17.16	74.25	-21.01	-13.00	-8.01

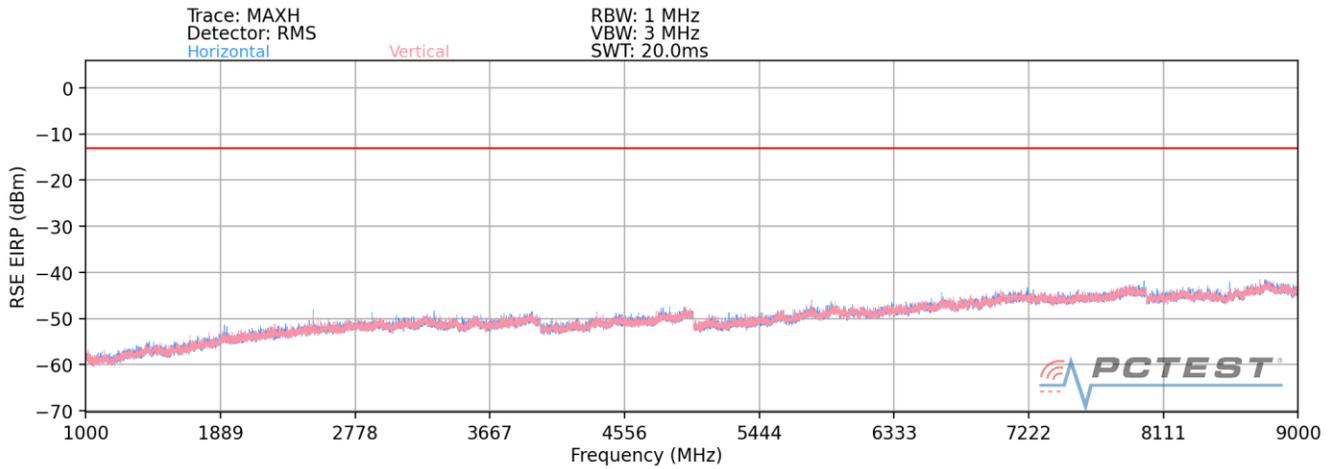
Table 7-41. Radiated Spurious Data (NR Band n5 + B66) – OPEN

FCC ID: A3LSMF926U	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset	Page 105 of 115

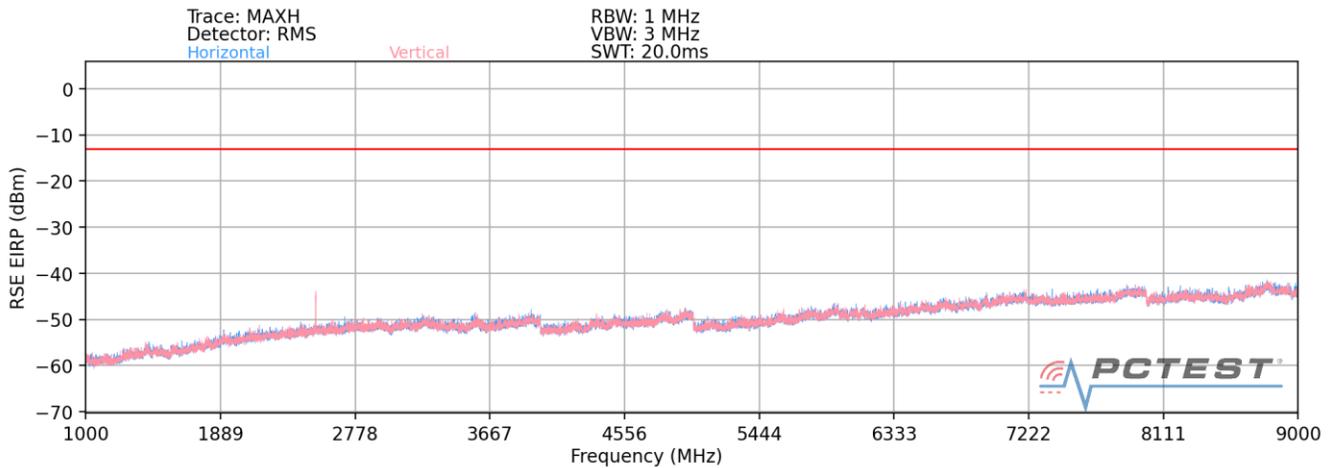
ULCA LTE Band 5



Plot 7-130. Radiated Spurious Plot (ULCA LTE Band 5 – Low Channel) – OPEN

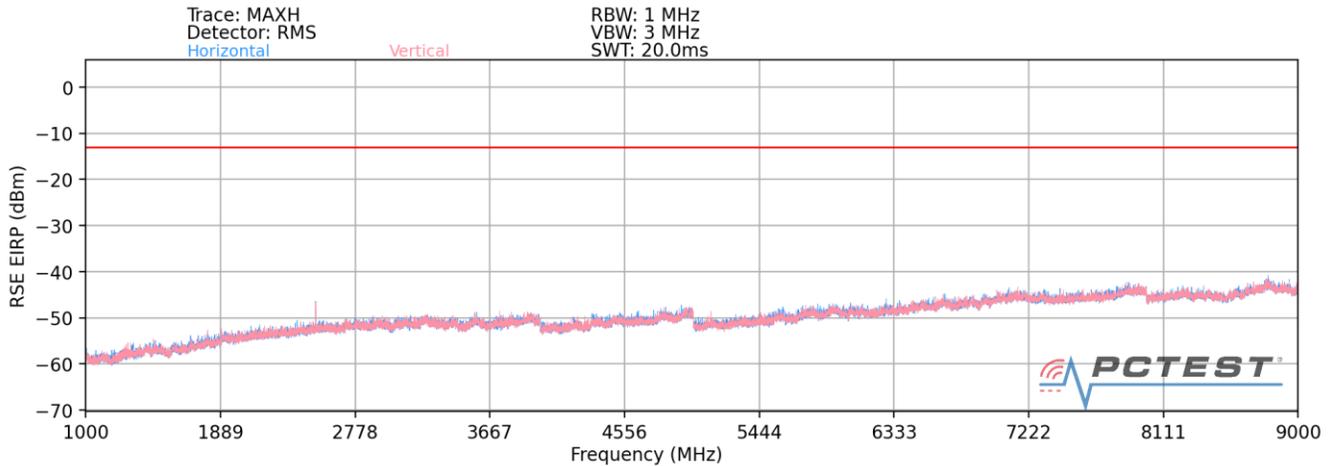


Plot 7-131. Radiated Spurious Plot (ULCA LTE Band 5 – Low Channel) – CLOSED



Plot 7-132. Radiated Spurious Plot (ULCA LTE Band 5 – High Channel) – OPEN

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-133. Radiated Spurious Plot (ULCA LTE Band 5 – High Channel) - CLOSED

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
SCC RB / Offset:	1 / 0
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	H	-	-	-79.17	1.07	28.90	-66.36	-13.00	-53.36
2487.0	H	110	200	-69.54	5.39	42.85	-52.41	-13.00	-39.41
3316.0	H	-	-	-80.48	6.84	33.36	-61.90	-13.00	-48.90
4145.0	H	-	-	-81.55	8.31	33.76	-61.49	-13.00	-48.49
4974.0	H	-	-	-82.28	10.50	35.22	-60.04	-13.00	-47.04

Table 7-42. Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 107 of 115

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	-	-	-79.14	1.41	29.27	-65.99	-13.00	-52.99
2532.0	H	151	120	-68.14	5.84	44.70	-50.56	-13.00	-37.56
3376.0	H	-	-	-80.70	7.09	33.39	-61.86	-13.00	-48.86
4220.0	H	-	-	-81.47	8.48	34.01	-61.24	-13.00	-48.24
5064.0	H	-	-	-81.79	9.76	34.97	-60.29	-13.00	-47.29

Table 7-43. Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset		Page 108 of 115

7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

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

For Part 22 and RSS-132, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Procedure Used

ANSI/TIA-603-E-2016

Test Settings

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

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

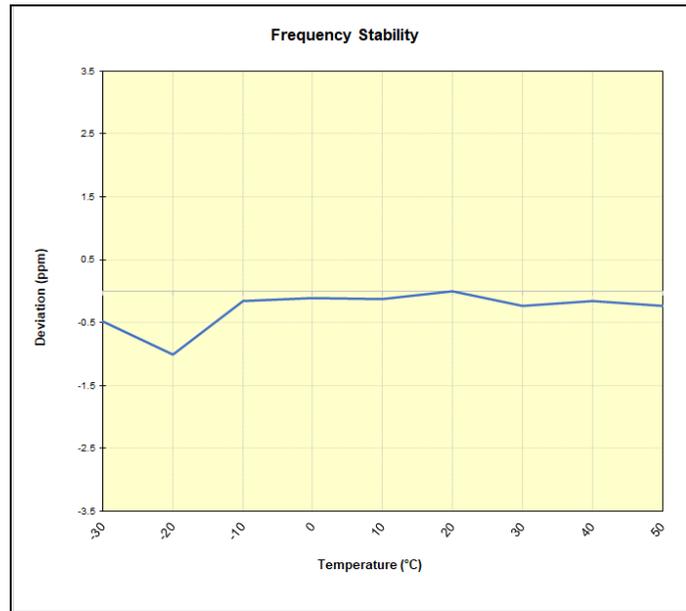
None

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell

GSM/GPRS Cellular					
Operating Frequency (Hz):		836,600,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	836,601,515	-396	-0.0000473
		- 20	836,601,071	-839	-0.0001003
		- 10	836,601,781	-130	-0.0000155
		0	836,601,821	-89	-0.0000106
		+ 10	836,601,811	-99	-0.0000118
		+ 20 (Ref)	836,601,910	0	0.0000000
		+ 30	836,601,713	-197	-0.0000235
		+ 40	836,601,780	-131	-0.0000156
		+ 50	836,601,716	-194	-0.0000232
Battery Endpoint	2.46	+ 20	836,601,944	34	0.0000041

Table 7-44. GSM/GPRS Cell Frequency Stability Data



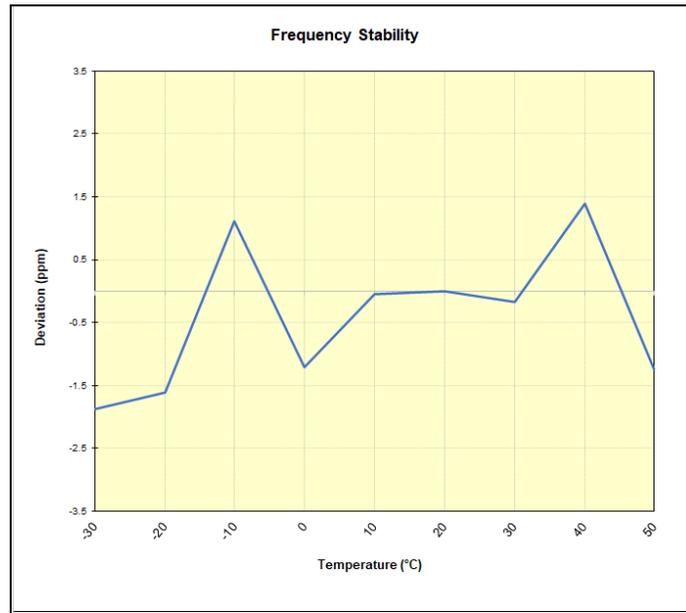
Plot 7-134. GSM/GPRS Cell Frequency Stability Chart

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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WCDMA Cell

WCDMA Cellular					
Operating Frequency (Hz):		836,600,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	836,596,590	-1,564	-0.0001869
		- 20	836,596,812	-1,341	-0.0001603
		- 10	836,599,089	936	0.0001118
		0	836,597,148	-1,006	-0.0001202
		+ 10	836,598,108	-45	-0.0000054
		+ 20 (Ref)	836,598,153	0	0.0000000
		+ 30	836,598,011	-142	-0.0000170
		+ 40	836,599,320	1,167	0.0001395
		+ 50	836,597,116	-1,038	-0.0001240
Battery Endpoint	2.46	+ 20	836,598,198	45	0.0000054

Table 7-45. WCDMA Cell Frequency Stability Data



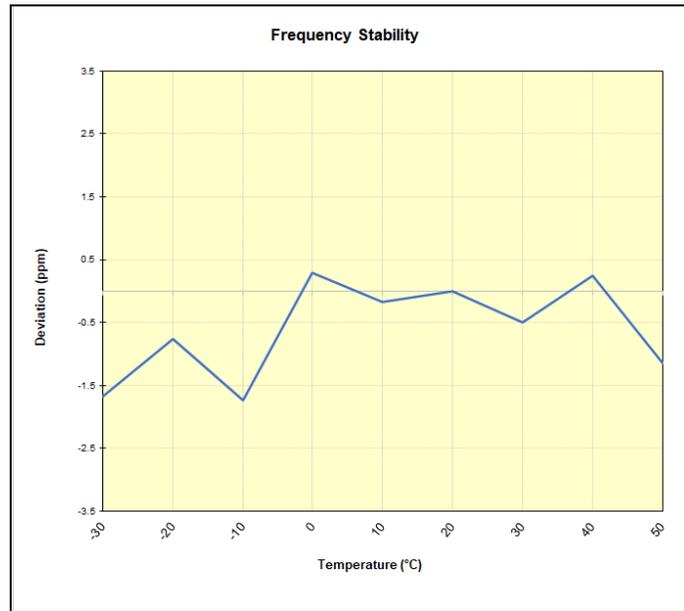
Plot 7-135. WCDMA Cell Frequency Stability Chart

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset	Page 111 of 115	

CDMA Cell

CDMA Cellular					
Operating Frequency (Hz):		836,520,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	836,520,605	-1,403	-0.0001677
		- 20	836,521,375	-632	-0.0000756
		- 10	836,520,561	-1,447	-0.0001729
		0	836,522,249	242	0.0000289
		+ 10	836,521,864	-143	-0.0000171
		+ 20 (Ref)	836,522,007	0	0.0000000
		+ 30	836,521,598	-409	-0.0000489
		+ 40	836,522,218	211	0.0000252
		+ 50	836,521,047	-961	-0.0001149
Battery Endpoint	2.46	+ 20	836,522,116	109	0.0000130

Table 7-46. CDMA Cell Frequency Stability Data



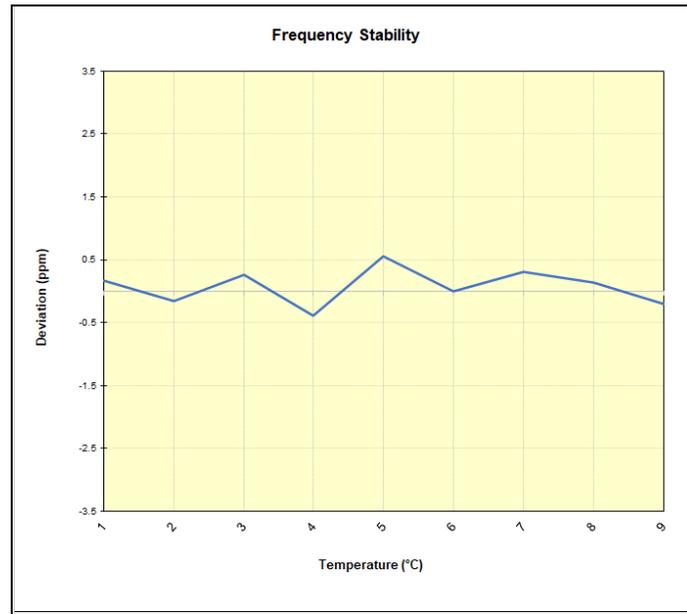
Plot 7-136. CDMA Cell Frequency Stability Chart

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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LTE Band 26/5

LTE Band 26/5					
Operating Frequency (Hz):		831,500,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	831,542,493	146	0.0000176
		- 20	831,542,212	-135	-0.0000162
		- 10	831,542,563	216	0.0000260
		0	831,542,021	-326	-0.0000392
		+ 10	831,542,808	461	0.0000554
		+ 20 (Ref)	831,542,347	0	0.0000000
		+ 30	831,542,604	257	0.0000309
		+ 40	831,542,459	112	0.0000135
Battery Endpoint	2.46	+ 20	831,542,327	-20	-0.0000024

Table 7-47. LTE Band 26/5 Frequency Stability Data



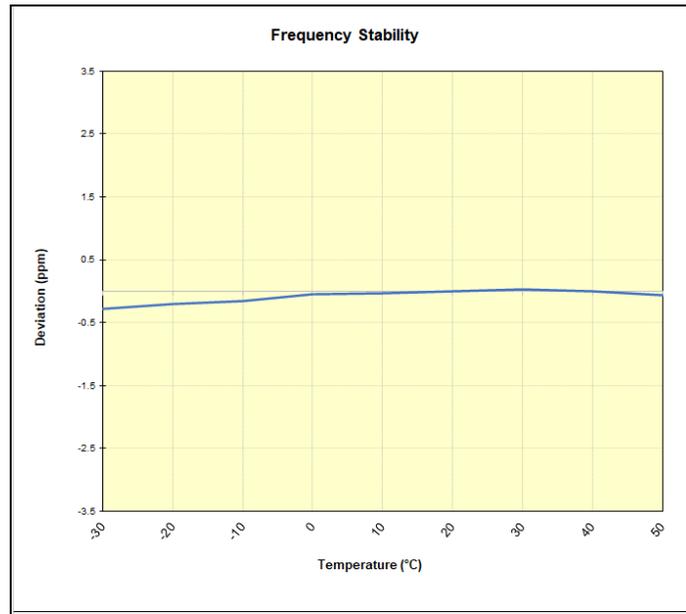
Plot 7-137. LTE Band 26/5 Frequency Stability Chart

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5

NR Band n5					
Operating Frequency (Hz):		836,500,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	836,046,413	-231	-0.0000276
		- 20	836,046,482	-162	-0.0000194
		- 10	836,046,512	-132	-0.0000158
		0	836,046,608	-36	-0.0000043
		+ 10	836,046,621	-23	-0.0000028
		+ 20 (Ref)	836,046,644	0	0.0000000
		+ 30	836,046,669	25	0.0000030
		+ 40	836,046,641	-3	-0.0000004
Battery Endpoint	2.46	+ 20	836,046,609	-35	-0.0000042

Table 7-48. NR Band n5 Frequency Stability Data



Plot 7-138. NR Band n5 Frequency Stability Chart

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Samsung **Portable Handset** **FCC ID: A3LSMF926U** complies with all the requirements of Part 22 of the FCC rules.

FCC ID: A3LSMF926U	 PART 22 MEASUREMENT REPORT 		Approved by: Technical Manager
Test Report S/N: 1M2104020031-022.A3L	Test Dates: 03/26 – 06/05/2021	EUT Type: Portable Handset	Page 115 of 115