

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7500.0	V	279	179	-51.39	9.24	64.85	-30.41	-13.00	-17.41
11250.0	V	361	312	-76.52	12.46	42.94	-52.32	-13.00	-39.32
15000.0	V	-	-	-78.85	15.77	43.92	-51.34	-13.00	-38.34
18750.0	V	-	-	-58.89	3.31	51.42	-53.38	-13.00	-40.38
22500.0	V	150	39	-55.30	4.77	56.47	-48.33	-13.00	-35.33
26250.0	V	150	8	-45.52	5.97	67.45	-37.35	-13.00	-24.35
30000.0	V	-	-	-58.53	7.58	56.05	-48.75	-13.00	-35.75
33750.0	V	-	-	-57.59	8.26	57.67	-47.13	-13.00	-34.13

Table 7-20. Radiated Spurious Data (NR Band n77 – Low Channel – Ant F)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136
Mode:	Stand Alone



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]
7680.0	V	252	374	-46.56	8.87	69.31	-25.95	-13.00	-12.95
11520.0	V	291	329	-71.32	13.46	49.14	-46.12	-13.00	-33.12
15360.0	V	-	-	-79.10	16.25	44.15	-51.10	-13.00	-38.10
19200.0	V	-	-	-58.18	3.68	52.50	-52.30	-13.00	-39.30
23040.0	V	150	68	-57.18	4.70	54.52	-50.28	-13.00	-37.28
26880.0	V	150	332	-51.11	6.01	61.90	-42.90	-13.00	-29.90
30720.0	V	-	-	-58.17	7.84	56.67	-48.13	-13.00	-35.13
34560.0	V	-	-	-57.57	8.38	57.81	-46.99	-13.00	-33.99

Table 7-21. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant F)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7860.0	V	388	12	-51.14	9.47	65.33	-29.93	-13.00	-16.93
11790.0	V	340	307	-72.54	13.75	48.21	-47.05	-13.00	-34.05
15720.0	V	-	-	-79.42	17.98	45.56	-49.70	-13.00	-36.70
19650.0	V	-	-	-57.95	3.95	53.00	-51.80	-13.00	-38.80
23580.0	V	150	186	-55.91	4.71	55.80	-49.00	-13.00	-36.00
27510.0	V	150	181	-50.98	5.99	62.01	-42.79	-13.00	-29.79
31440.0	V	-	-	-58.79	7.92	56.13	-48.67	-13.00	-35.67
35370.0	V	-	-	-57.75	8.71	57.96	-46.84	-13.00	-33.84




Table 7-22. Radiated Spurious Data (NR Band n77 – High Channel – Ant F)

FCC ID: A3LSMS906U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M210909103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 158 of 181	

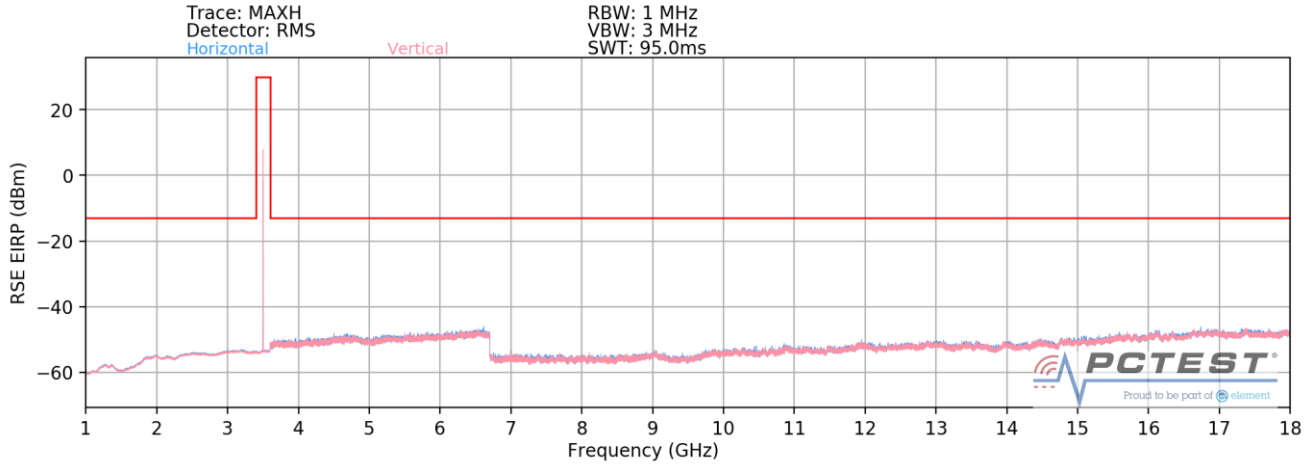
Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7680.0	H	125	67	-49.92	8.87	65.95	-29.31	-13.00	-16.31
11520.0	H	340	338	-74.52	13.46	45.94	-49.32	-13.00	-36.32
15360.0	H	-	-	-78.48	16.25	44.77	-50.48	-13.00	-37.48

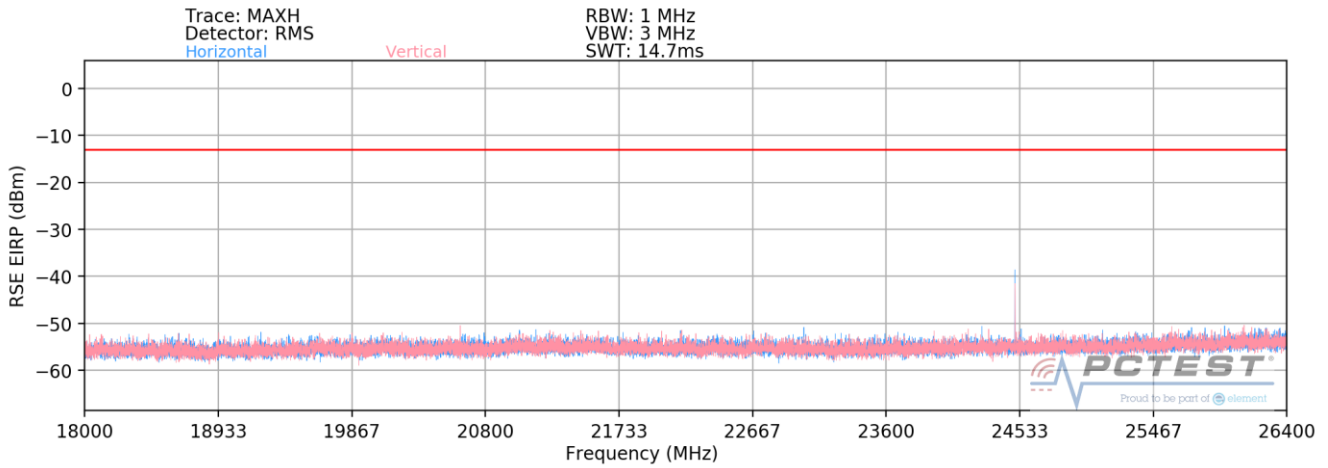
Table 7-23. Radiated Spurious Data with WCP (NR Band n77 – Ant F)

FCC ID: A3LSMS906U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 159 of 181

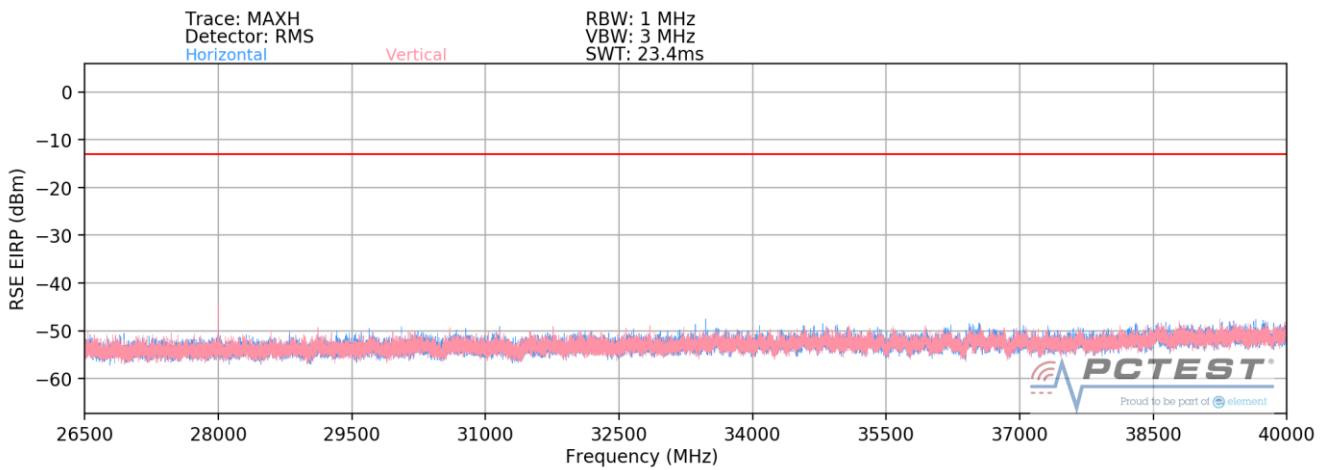
NR Band n77 (DoD-Band) – SRS-2 - Ant C



Plot 7-243. Radiated Spurious Plot (NR Band n77 (DoD) – Ant C)



Plot 7-244. Radiated Spurious Plot (NR Band n77 (DoD) – Ant C)



Plot 7-245. Radiated Spurious Plot (NR Band n77 (DoD) – Ant C)

FCC ID: A3LSMS906U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 160 of 181

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone



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]
7000.0	H	130	305	-71.40	9.07	44.67	-50.59	-13.00	-37.59
10500.0	H	-	-	-78.41	12.08	40.67	-54.59	-13.00	-41.59
14000.0	H	-	-	-79.04	14.29	42.25	-53.00	-13.00	-40.00
17500.1	H	-	-	-79.59	17.89	45.30	-49.95	-13.00	-36.95
21000.1	H	-	-	-60.08	4.69	51.61	-53.19	-13.00	-40.19
24500.1	H	150	14	-43.65	5.21	68.56	-36.24	-13.00	-23.24
28000.1	H	150	294	-46.69	6.12	66.43	-38.37	-13.00	-25.37
31500.1	H	-	-	-59.54	8.05	55.51	-49.29	-13.00	-36.29

Table 7-24. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant C)

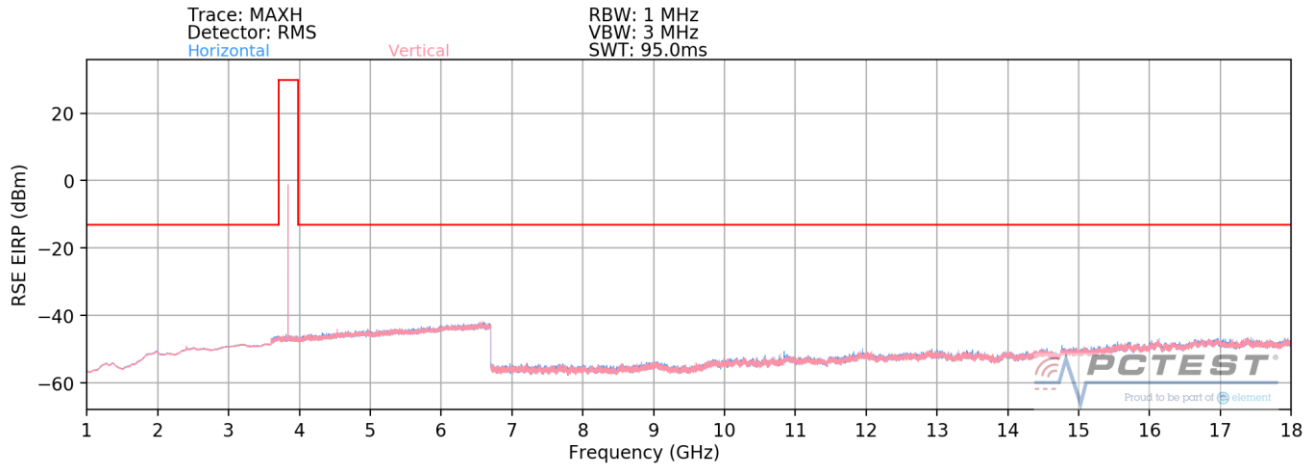
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7000.0	H	115	283	-73.00	9.07	43.07	-52.19	-13.00	-39.19
10500.0	H	-	-	-78.45	12.08	40.63	-54.63	-13.00	-41.63
14000.0	H	-	-	-78.81	14.29	42.48	-52.77	-13.00	-39.77
17500.1	H	-	-	-78.47	17.89	46.42	-48.83	-13.00	-35.83

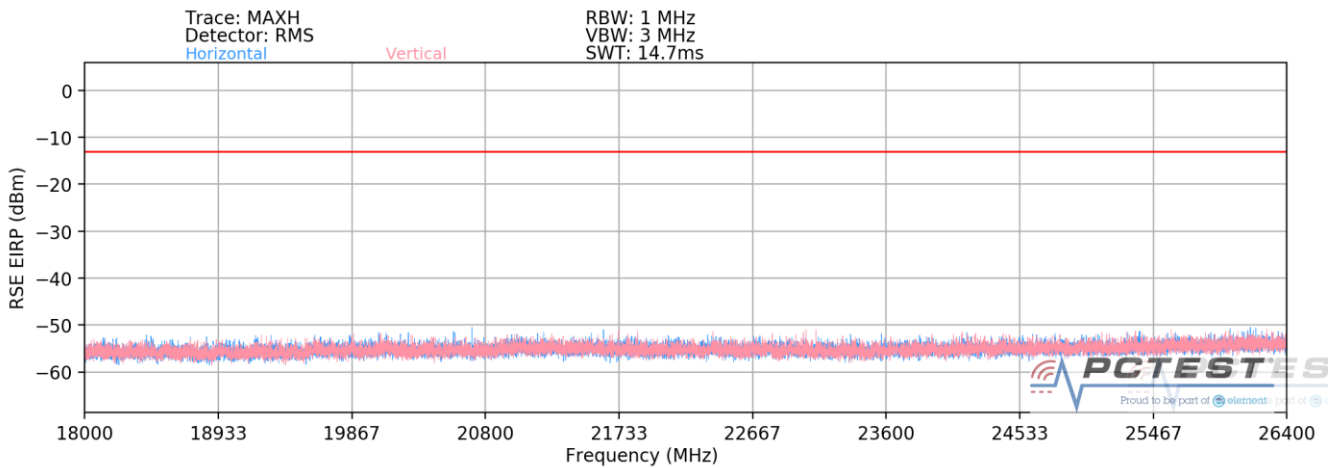
Table 7-25. Radiated Spurious Data with WCP (NR Band n77 (DoD) – Ant C)

FCC ID: A3LSMS906U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 161 of 181

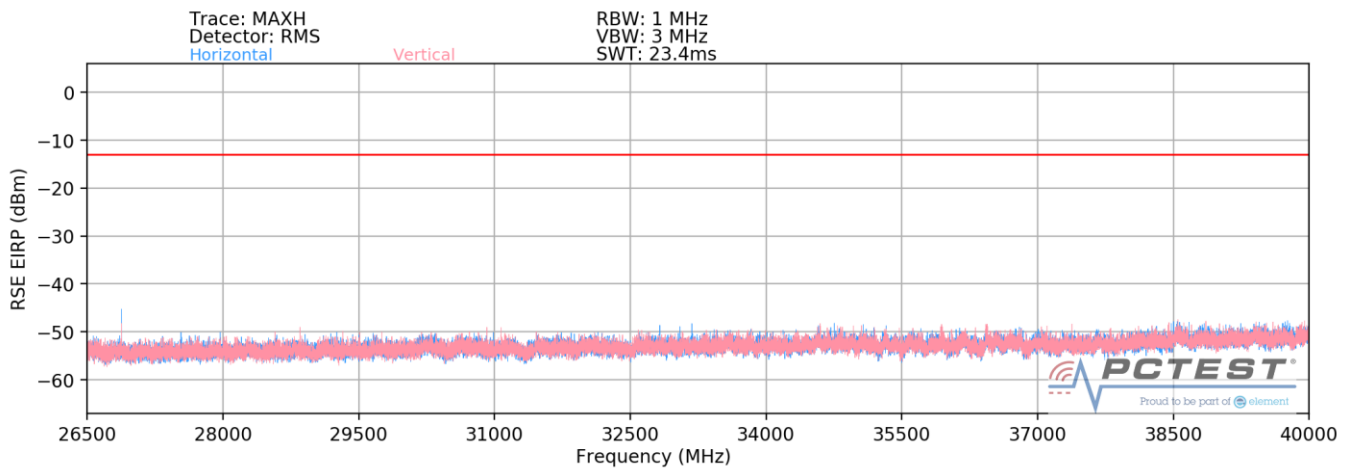
NR Band n77 (C-Band) – SRS-2 – Ant C



Plot 7-246. Radiated Spurious Plot (NR Band n77 – Ant C)



Plot 7-247. Radiated Spurious Plot (NR Band n77 – Ant C)



Plot 7-248. Radiated Spurious Plot (NR Band n77 – Ant C)

FCC ID: A3LSMS906U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 162 of 181

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7500.0	V	118	5	-76.96	9.24	39.28	-55.98	-13.00	-42.98
11250.0	V	-	-	-78.72	12.46	40.74	-54.52	-13.00	-41.52
15000.0	V	-	-	-79.31	15.77	43.46	-51.80	-13.00	-38.80
18750.0	V	-	-	-58.78	3.31	51.53	-53.27	-13.00	-40.27
22500.0	V	150	335	-54.49	4.77	57.28	-47.52	-13.00	-34.52
26250.0	V	150	208	-48.23	5.97	64.74	-40.06	-13.00	-27.06
30000.0	V	-	-	-58.89	7.58	55.69	-49.11	-13.00	-36.11
33750.0	V	-	-	-58.81	8.26	56.45	-48.35	-13.00	-35.35

Table 7-26. Radiated Spurious Data (NR Band n77 – Low Channel – Ant C)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136
Mode:	Stand Alone



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]
7680.0	V	111	16	-73.69	8.87	42.18	-53.08	-13.00	-40.08
11520.0	V	-	-	-78.57	13.46	41.89	-53.37	-13.00	-40.37
15360.0	V	-	-	-79.08	16.25	44.17	-51.08	-13.00	-38.08
19200.0	V	-	-	-58.89	3.68	51.79	-53.01	-13.00	-40.01
23040.0	V	150	236	-56.58	4.70	55.12	-49.68	-13.00	-36.68
26880.0	V	150	180	-54.62	6.01	58.39	-46.41	-13.00	-33.41
30720.0	V	-	-	-59.61	7.84	55.23	-49.57	-13.00	-36.57
34560.0	V	-	-	-57.60	8.38	57.78	-47.02	-13.00	-34.02

Table 7-27. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant C)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7860.0	V	114	368	-74.43	9.47	42.04	-53.22	-13.00	-40.22
11790.0	V	-	-	-79.00	13.75	41.75	-53.51	-13.00	-40.51
15720.0	V	-	-	-79.48	17.98	45.50	-49.76	-13.00	-36.76
19650.0	V	-	-	-59.03	3.95	51.92	-52.88	-13.00	-39.88
23580.0	V	150	345	-54.44	4.71	57.27	-47.53	-13.00	-34.53
27510.0	V	150	47	-48.78	5.99	64.21	-40.59	-13.00	-27.59
31440.0	V	-	-	-58.82	7.92	56.10	-48.70	-13.00	-35.70
35370.0	V	-	-	-57.49	8.71	58.22	-46.58	-13.00	-33.58




Table 7-28. Radiated Spurious Data (NR Band n77 – High Channel – Ant C)

FCC ID: A3LSMS906U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 163 of 181

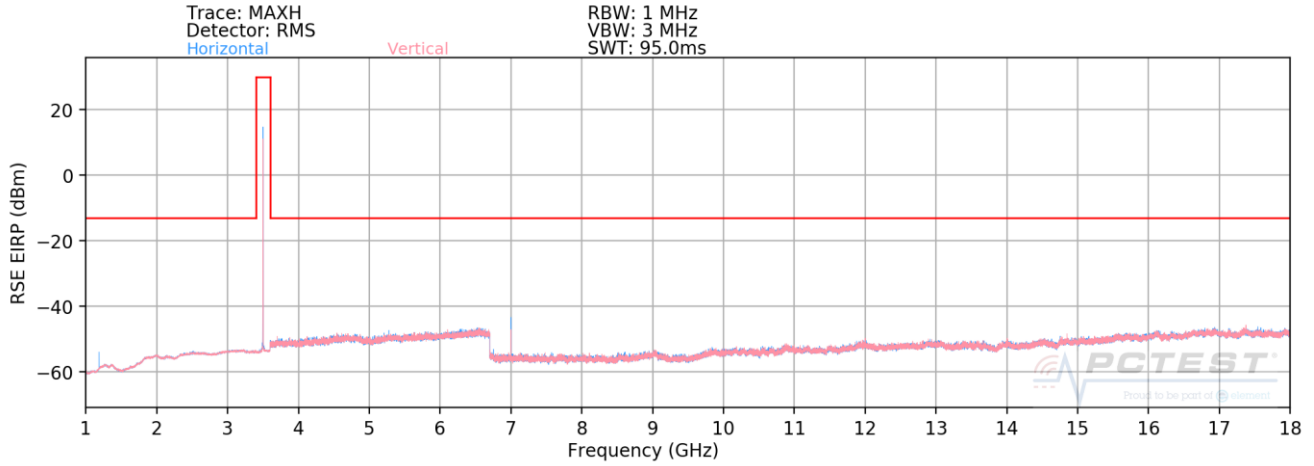
Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7680.0	V	134	230	-76.45	8.87	39.42	-55.84	-13.00	-42.84
11520.0	V	-	-	-78.82	13.46	41.64	-53.62	-13.00	-40.62
15360.0	V	-	-	-79.14	16.25	44.11	-51.14	-13.00	-38.14

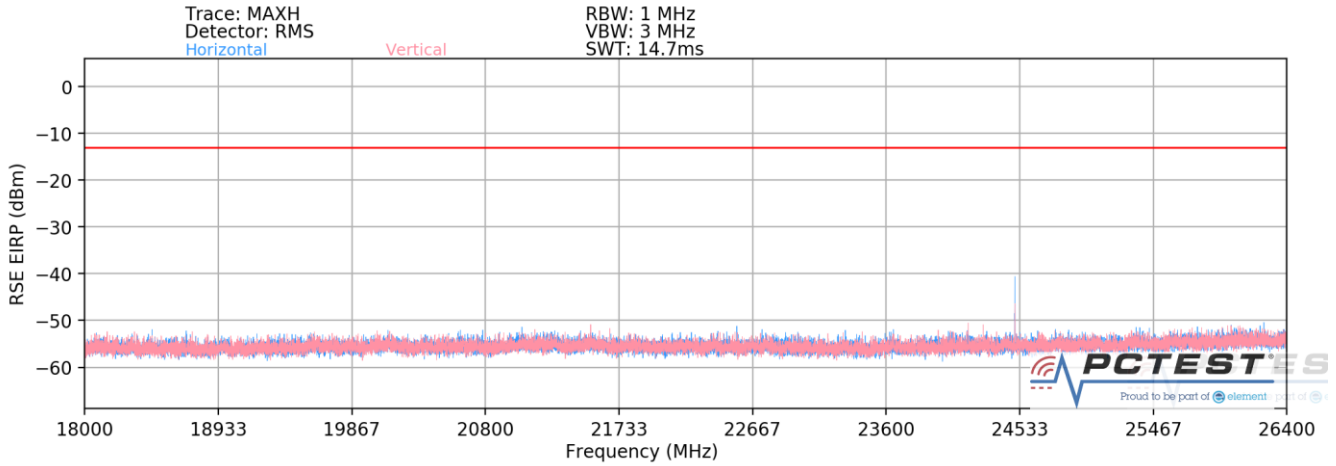
Table 7-29. Radiated Spurious Data with WCP (NR Band n77 – Ant C)

FCC ID: A3LSMS906U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 164 of 181

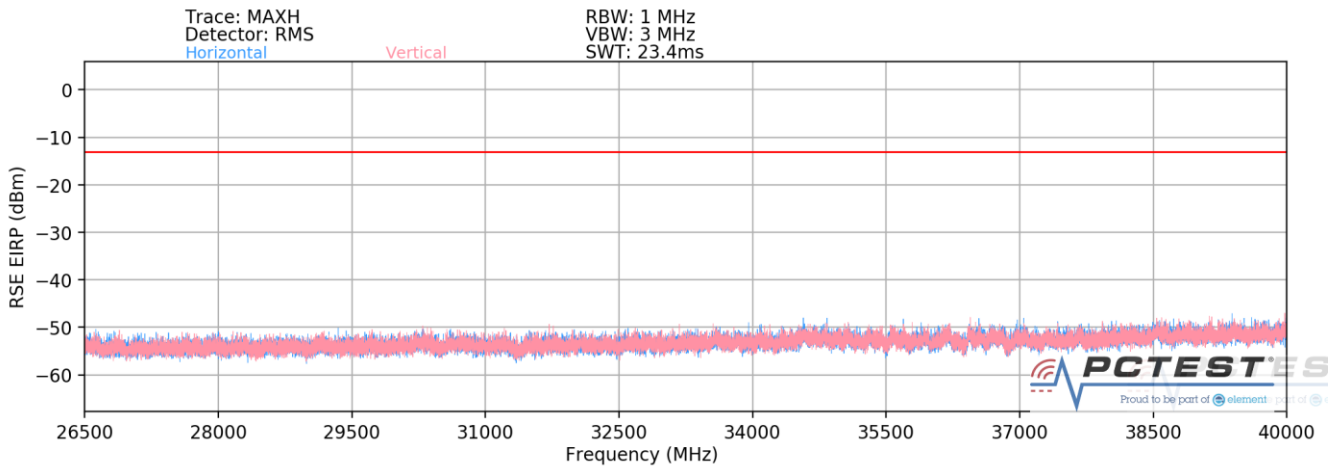
NR Band n77 (DoD-Band) – SRS-3 - Ant K



Plot 7-249. Radiated Spurious Plot (NR Band n77 (DoD) – Ant K)



Plot 7-250. Radiated Spurious Plot (NR Band n77 (DoD) – Ant K)



Plot 7-251. Radiated Spurious Plot (NR Band n77 (DoD) – Ant K)

FCC ID: A3LSMS906U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 165 of 181

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone



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]
7000.0	H	134	327	-61.40	9.07	54.67	-40.59	-13.00	-27.59
10500.0	H	-	-	-78.49	12.08	40.59	-54.67	-13.00	-41.67
14000.0	H	270	341	-78.03	14.29	43.26	-51.99	-13.00	-38.99
17500.1	H	-	-	-78.33	17.89	46.56	-48.69	-13.00	-35.69
21000.1	H	-	-	-59.52	4.69	52.17	-52.63	-13.00	-39.63
24500.1	H	150	221	-43.56	5.21	68.65	-36.15	-13.00	-23.15
28000.1	H	150	228	-53.46	6.12	59.66	-45.14	-13.00	-32.14
31500.1	H	-	-	-59.12	8.05	55.93	-48.87	-13.00	-35.87

Table 7-30. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant K)

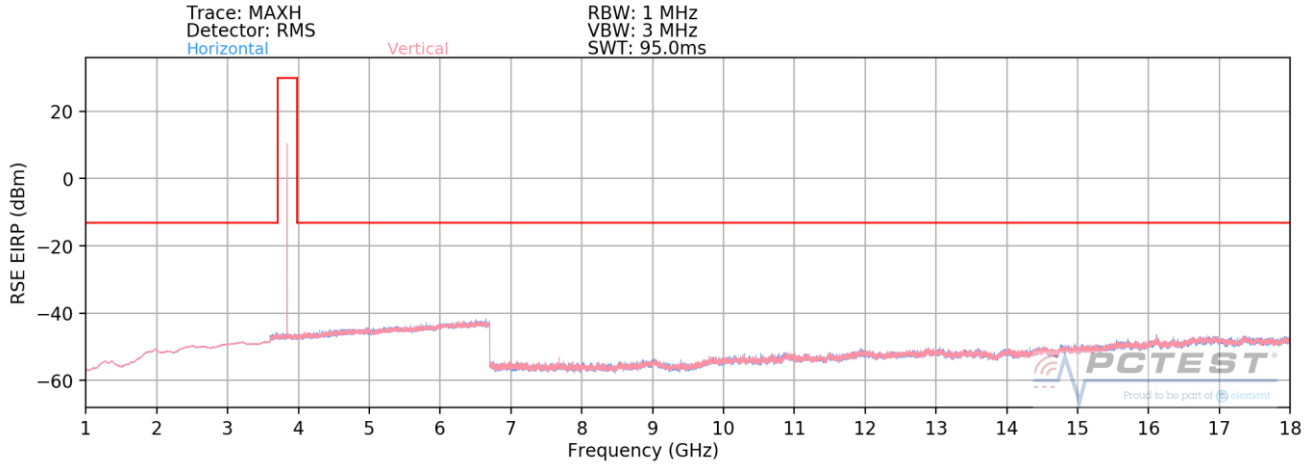
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7000.0	H	114	345	-63.70	9.07	52.37	-42.89	-13.00	-29.89
10500.0	H	-	-	-78.85	12.08	40.23	-55.03	-13.00	-42.03
14000.0	H	-	-	-78.40	14.29	42.89	-52.36	-13.00	-39.36
17500.1	H	-	-	-78.56	17.89	46.33	-48.92	-13.00	-35.92

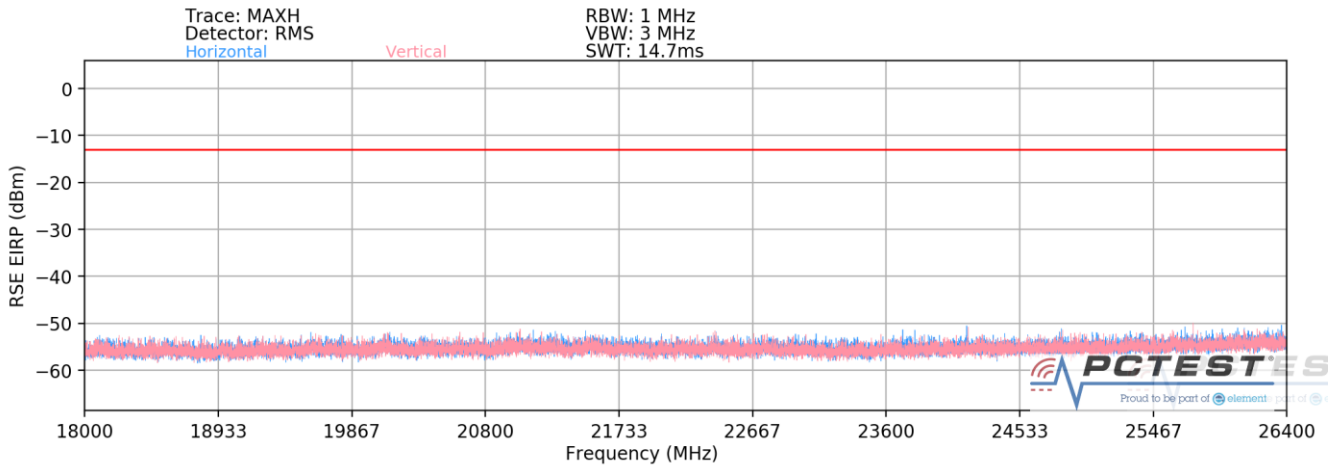
Table 7-31. Radiated Spurious Data with WCP (NR Band n77 (DoD) – Ant K)

FCC ID: A3LSMS906U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 166 of 181	

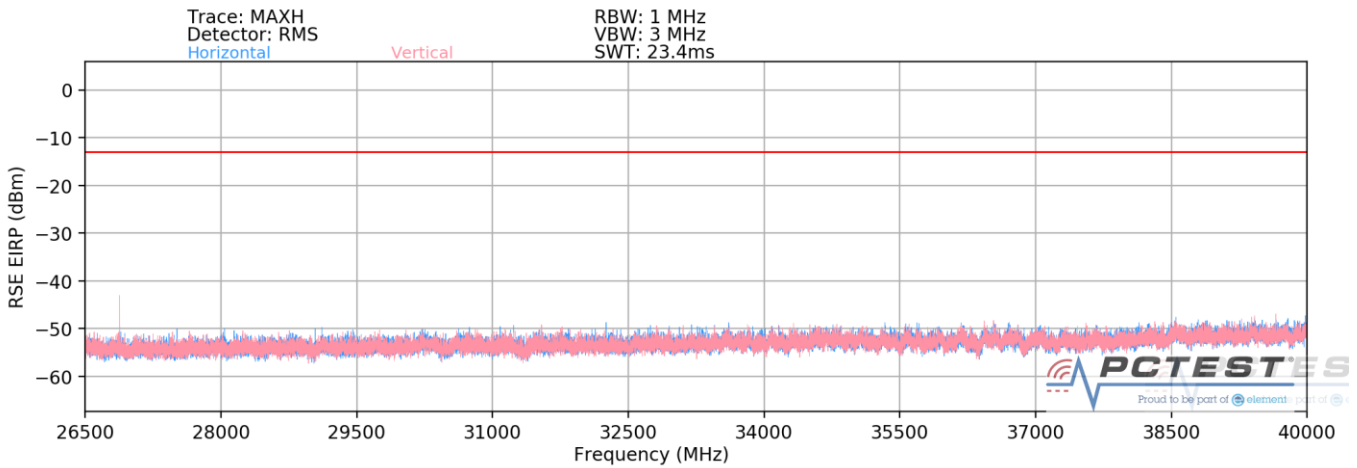
NR Band n77 (C-Band) – SRS-3 – Ant K



Plot 7-252. Radiated Spurious Plot (NR Band n77 – Ant K)



Plot 7-253. Radiated Spurious Plot (NR Band n77 – Ant K)



Plot 7-254. Radiated Spurious Plot (NR Band n77 – Ant K)

FCC ID: A3LSMS906U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 167 of 181

Bandwidth (MHz):	100
Frequency (MHz):	3750.0
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7500.0	V	112	197	-76.37	9.24	39.87	-55.39	-13.00	-42.39
11250.0	V	-	-	-78.57	12.46	40.89	-54.37	-13.00	-41.37
15000.0	V	-	-	-79.13	15.77	43.64	-51.62	-13.00	-38.62
18750.0	V	-	-	-58.83	3.31	51.48	-53.32	-13.00	-40.32
22500.0	V	-	-	-58.91	4.77	52.86	-51.94	-13.00	-38.94
26250.0	V	150	321	-49.47	5.97	63.50	-41.30	-13.00	-28.30
30000.0	V	-	-	-58.13	7.58	56.45	-48.35	-13.00	-35.35
33750.0	V	-	-	-58.12	8.26	57.14	-47.66	-13.00	-34.66

Table 7-32. Radiated Spurious Data (NR Band n77 – Low Channel – Ant K)

Bandwidth (MHz):	100
Frequency (MHz):	3840.0
RB / Offset:	1 / 136
Mode:	Stand Alone



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]
7680.0	V	112	241	-73.33	8.87	42.54	-52.72	-13.00	-39.72
11520.0	V	-	-	-78.70	13.46	41.76	-53.50	-13.00	-40.50
15360.0	V	-	-	-79.06	16.25	44.19	-51.06	-13.00	-38.06
19200.0	V	-	-	-58.42	3.68	52.26	-52.54	-13.00	-39.54
23040.0	V	-	-	-59.36	4.70	52.34	-52.46	-13.00	-39.46
26880.0	V	150	360	-52.78	6.01	60.23	-44.57	-13.00	-31.57
30720.0	V	-	-	-58.81	7.84	56.03	-48.77	-13.00	-35.77
34560.0	V	-	-	-58.27	8.38	57.11	-47.69	-13.00	-34.69

Table 7-33. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant K)

Bandwidth (MHz):	100
Frequency (MHz):	3930.0
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7860.0	V	114	169	-71.37	9.47	45.10	-50.16	-13.00	-37.16
11790.0	V	-	-	-78.19	13.75	42.56	-52.70	-13.00	-39.70
15720.0	V	-	-	-79.35	17.98	45.63	-49.63	-13.00	-36.63
19650.0	V	-	-	-59.26	3.95	51.69	-53.11	-13.00	-40.11
23580.0	V	150	36	-51.86	4.71	59.85	-44.95	-13.00	-31.95
27510.0	V	150	56	-46.83	5.99	66.16	-38.64	-13.00	-25.64
31440.0	V	-	-	-59.16	7.92	55.76	-49.04	-13.00	-36.04
35370.0	V	-	-	-57.09	8.71	58.62	-46.18	-13.00	-33.18




Table 7-34. Radiated Spurious Data (NR Band n77 – High Channel – Ant K)

FCC ID: A3LSMS906U	 PART 27 MEASUREMENT REPORT 	Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset
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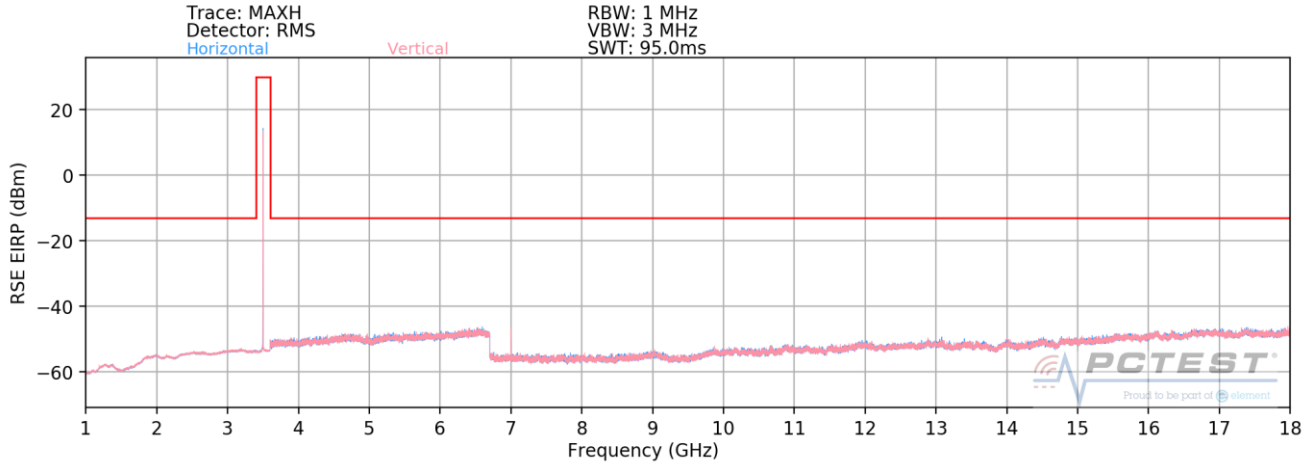
Bandwidth (MHz):	100
Frequency (MHz):	3930.0
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7860.0	V	114	25	-72.59	9.47	43.88	-51.38	-13.00	-38.38
11790.0	V	-	-	-79.47	13.75	41.28	-53.98	-13.00	-40.98
15720.0	V	-	-	-79.82	17.98	45.16	-50.10	-13.00	-37.10

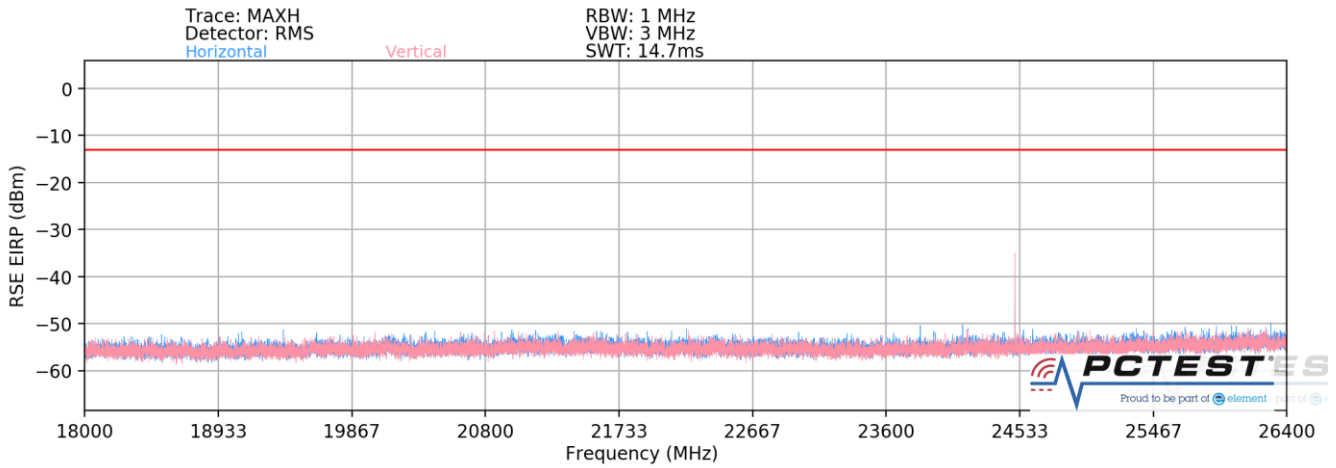
Table 7-35. Radiated Spurious Data with WCP (NR Band n77 – Ant K)

FCC ID: A3LSMS906U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 169 of 181

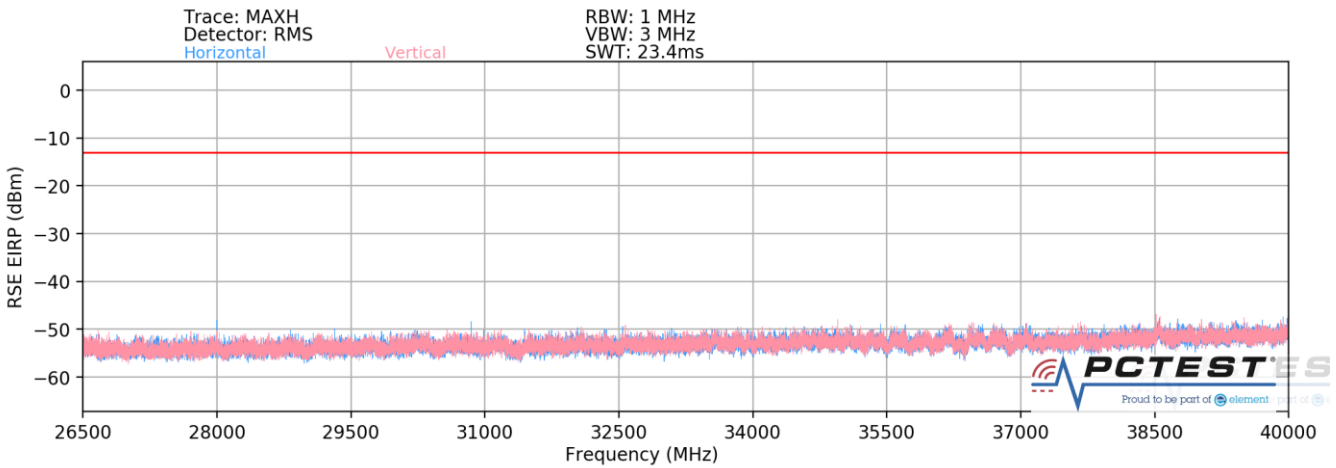
NR Band n77 (DoD-Band) – SRS-4 - Ant D






Plot 7-255. Radiated Spurious Plot (NR Band n77 (DoD) – Ant D)



Plot 7-256. Radiated Spurious Plot (NR Band n77 (DoD) – Ant D)



Plot 7-257. Radiated Spurious Plot (NR Band n77 (DoD) – Ant D)

FCC ID: A3LSMS906U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 170 of 181

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone



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]
7000.0	V	295	338	-68.24	9.07	47.83	-47.43	-13.00	-34.43
10500.0	V	-	-	-78.81	12.08	40.27	-54.99	-13.00	-41.99
14000.0	V	-	-	-78.77	14.29	42.52	-52.73	-13.00	-39.73
17500.1	V	-	-	-78.29	17.89	46.60	-48.65	-13.00	-35.65
21000.1	V	-	-	-59.19	4.69	52.50	-52.30	-13.00	-39.30
24500.1	V	150	36	-42.80	5.21	69.41	-35.39	-13.00	-22.39
28000.1	V	150	76	-49.35	6.12	63.77	-41.03	-13.00	-28.03
31500.1	V	-	-	-59.19	8.05	55.86	-48.94	-13.00	-35.94

Table 7-36. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant D)

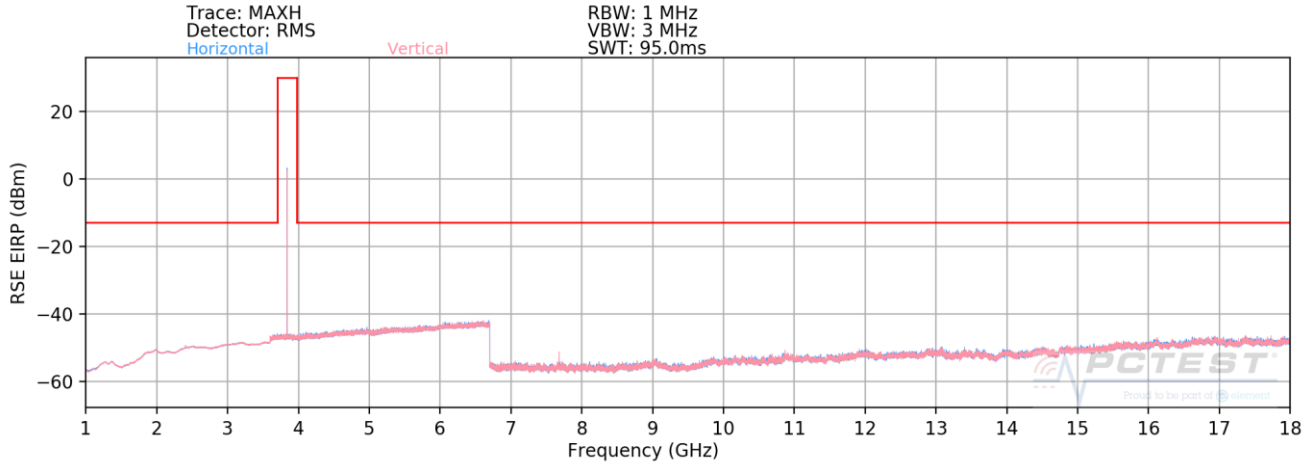
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7000.0	V	170	57	-72.58	9.07	43.49	-51.77	-13.00	-38.77
10500.0	V	-	-	-78.69	12.08	40.39	-54.87	-13.00	-41.87
14000.0	V	-	-	-78.76	14.29	42.53	-52.72	-13.00	-39.72
17500.1	V	-	-	-78.87	17.89	46.02	-49.23	-13.00	-36.23

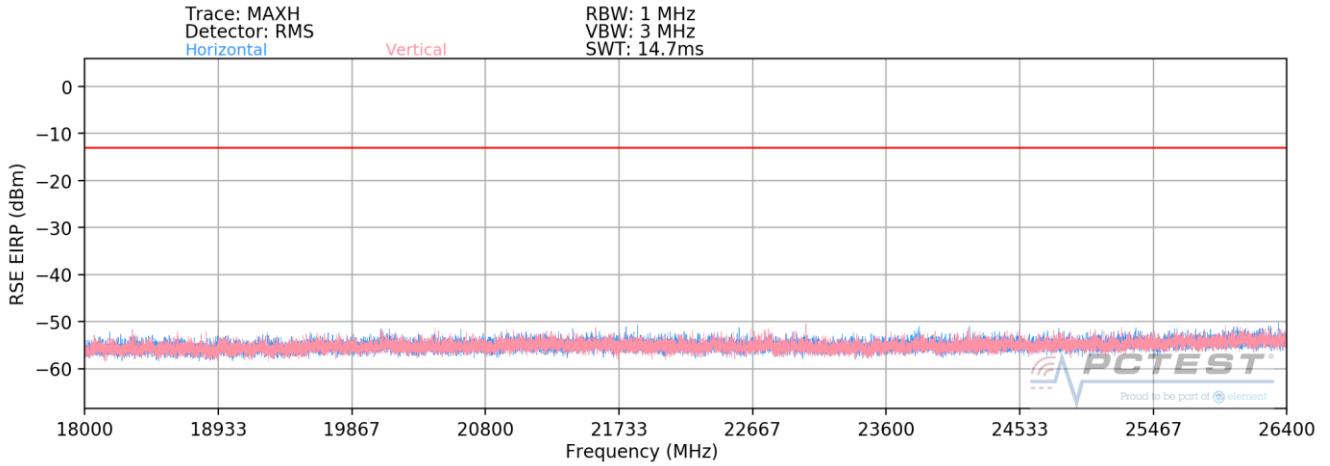
Table 7-37. Radiated Spurious Data with WCP (NR Band n77 (DoD) – Ant D)

FCC ID: A3LSMS906U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 171 of 181

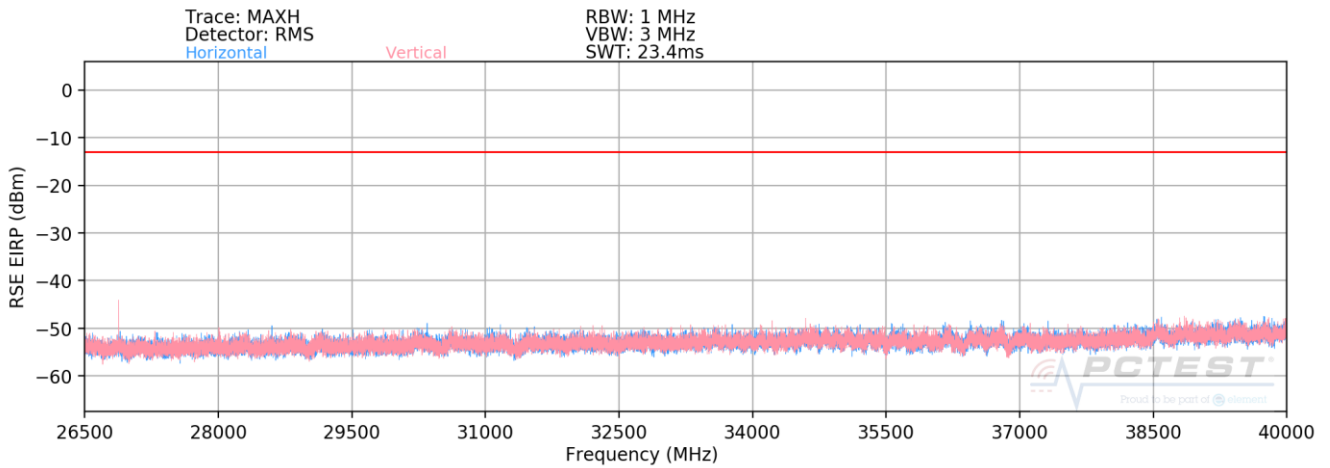
NR Band n77 (C-Band) – SRS-4 – Ant D



Plot 7-258. Radiated Spurious Plot (NR Band n77 – Ant D)



Plot 7-259. Radiated Spurious Plot (NR Band n77 – Ant D)



Plot 7-260. Radiated Spurious Plot (NR Band n77 – Ant D)

FCC ID: A3LSMS906U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 172 of 181

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7500.0	V	129	291	-72.40	9.24	43.84	-51.42	-13.00	-38.42
11250.0	V	-	-	-78.52	12.46	40.94	-54.32	-13.00	-41.32
15000.0	V	-	-	-79.40	15.77	43.37	-51.89	-13.00	-38.89
18750.0	V	-	-	-59.16	3.31	51.15	-53.65	-13.00	-40.65
22500.0	V	-	-	-59.72	4.77	52.05	-52.75	-13.00	-39.75
26250.0	V	150	35	-50.71	5.97	62.26	-42.54	-13.00	-29.54
30000.0	V	-	-	-58.93	7.58	55.65	-49.15	-13.00	-36.15
33750.0	V	-	-	-58.34	8.26	56.92	-47.88	-13.00	-34.88

Table 7-38. Radiated Spurious Data (NR Band n77 – Low Channel – Ant D)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136
Mode:	Stand Alone



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]
7680.0	V	116	15	-70.29	8.87	45.58	-49.68	-13.00	-36.68
11520.0	V	-	-	-78.92	13.46	41.54	-53.72	-13.00	-40.72
15360.0	V	-	-	-78.91	16.25	44.34	-50.91	-13.00	-37.91
19200.0	V	-	-	-59.35	3.68	51.33	-53.47	-13.00	-40.47
23040.0	V	150	21	-57.55	4.70	54.15	-50.65	-13.00	-37.65
26880.0	V	150	320	-55.40	6.01	57.61	-47.19	-13.00	-34.19
30720.0	V	-	-	-59.69	7.84	55.15	-49.65	-13.00	-36.65
34560.0	V	-	-	-57.78	8.38	57.60	-47.20	-13.00	-34.20

Table 7-39. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant D)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7860.0	V	117	308	-71.14	9.47	45.33	-49.93	-13.00	-36.93
11790.0	V	-	-	-78.52	13.75	42.23	-53.03	-13.00	-40.03
15720.0	V	-	-	-79.52	17.98	45.46	-49.80	-13.00	-36.80
19650.0	V	-	-	-58.70	3.95	52.25	-52.55	-13.00	-39.55
23580.0	V	150	39	-52.84	4.71	58.87	-45.93	-13.00	-32.93
27510.0	V	150	325	-50.89	5.99	62.10	-42.70	-13.00	-29.70
31440.0	V	-	-	-59.37	7.92	55.55	-49.25	-13.00	-36.25
35370.0	V	-	-	-58.66	8.71	57.05	-47.75	-13.00	-34.75




Table 7-40. Radiated Spurious Data (NR Band n77 – High Channel – Ant D)

FCC ID: A3LSMS906U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 173 of 181

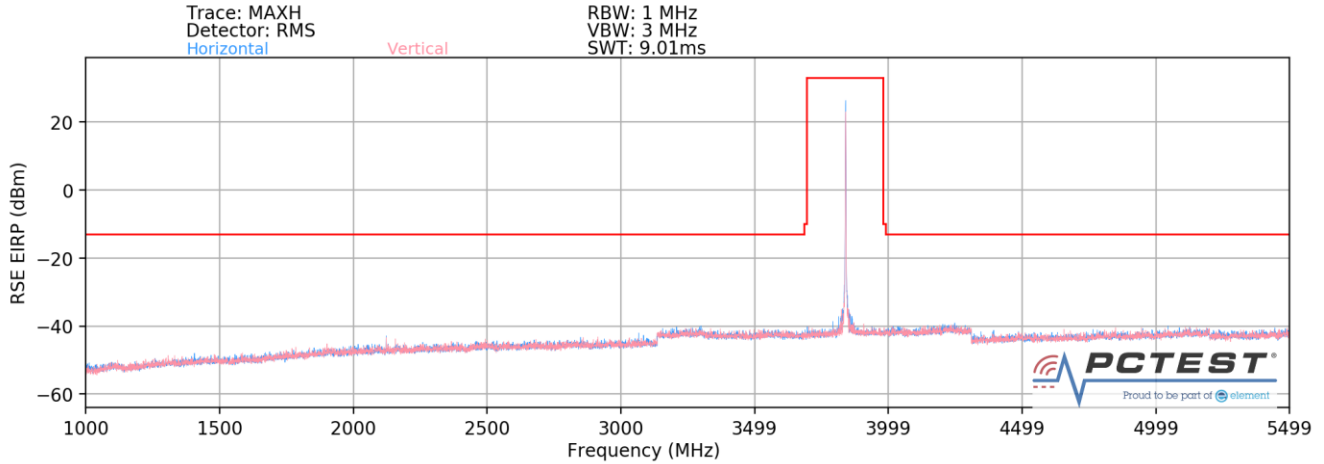
Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7680.0	V	128	236	-74.37	8.87	41.50	-53.76	-13.00	-40.76
11520.0	V	-	-	-78.85	13.46	41.61	-53.65	-13.00	-40.65
15360.0	V	-	-	-79.07	16.25	44.18	-51.07	-13.00	-38.07

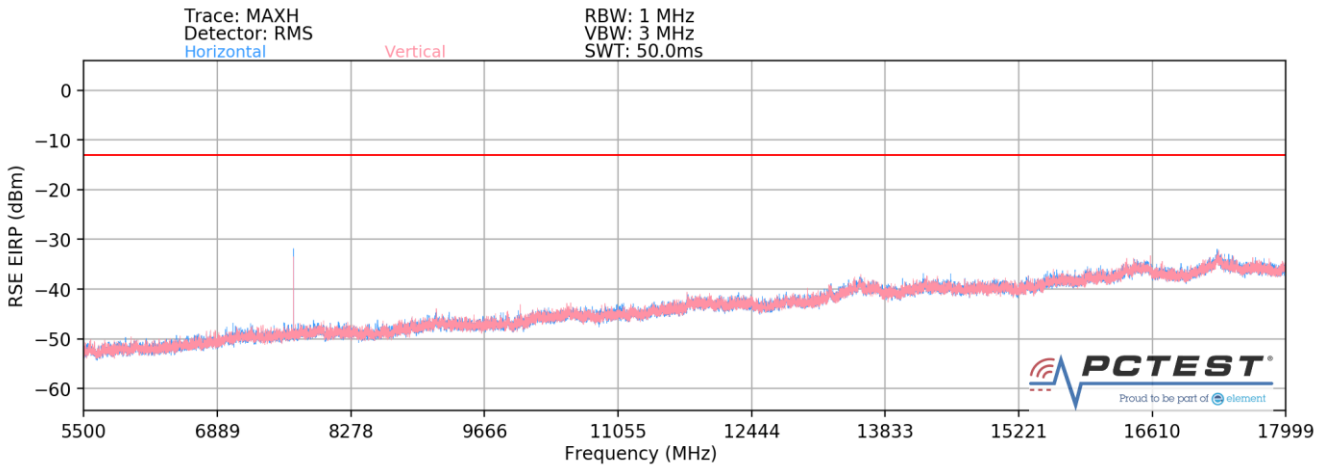
Table 7-41. Radiated Spurious Data with WCP (NR Band n77 – Ant D)

FCC ID: A3LSMS906U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 174 of 181

EN-DC: NR n77 (Ant F) – LTE Band 12



Plot 7-261. Radiated Spurious Plot (NR Band n77 PC2 – EN-DC Anchor B12)





Plot 7-262. Radiated Spurious Plot (NR Band n77 PC2 – EN-DC Anchor B12)

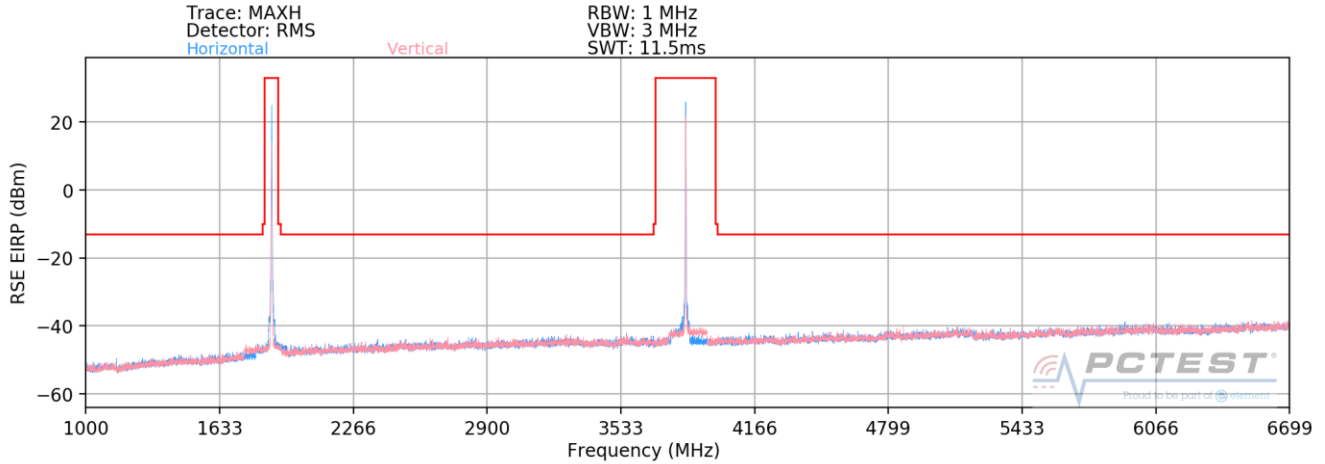
Bandwidth (MHz):	100 & 10
Frequency (MHz):	3840 & 707.5
RB / Offset:	1 / 136 & 1 / 25
Mode:	EN-DC
Anchor Band:	12

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]
2425.0	H	-	-	-70.84	13.63	49.79	-45.47	-13.00	-32.47
5557.0	H	-	-	-73.49	13.59	47.10	-48.16	-13.00	-35.16
6972.0	H	-	-	-73.81	14.93	48.12	-47.14	-13.00	-34.14
7680.0	H	102	158	-54.28	16.89	69.61	-35.19	-13.00	-22.19
8690.0	H	-	-	-75.69	17.60	48.91	-55.89	-13.00	-42.89
10105.0	H	-	-	-76.13	19.70	50.57	-54.23	-13.00	-41.23

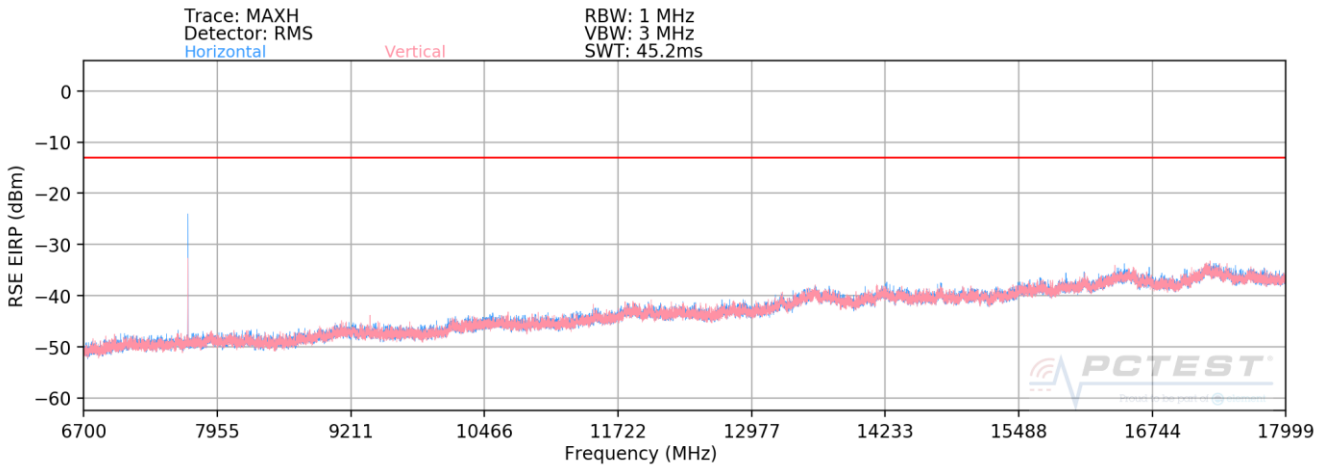
Table 7-42. Radiated Spurious Data (NR Band n77 PC2 – EN-DC Anchor B12)

FCC ID: A3LSMS906U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 175 of 181

EN-DC: NR n77 (Ant F) – LTE Band 2



Plot 7-263. Radiated Spurious Plot (NR Band n77 PC2 – EN-DC Anchor B2)



Plot 7-264. Radiated Spurious Plot (NR Band n77 PC2 – EN-DC Anchor B2)

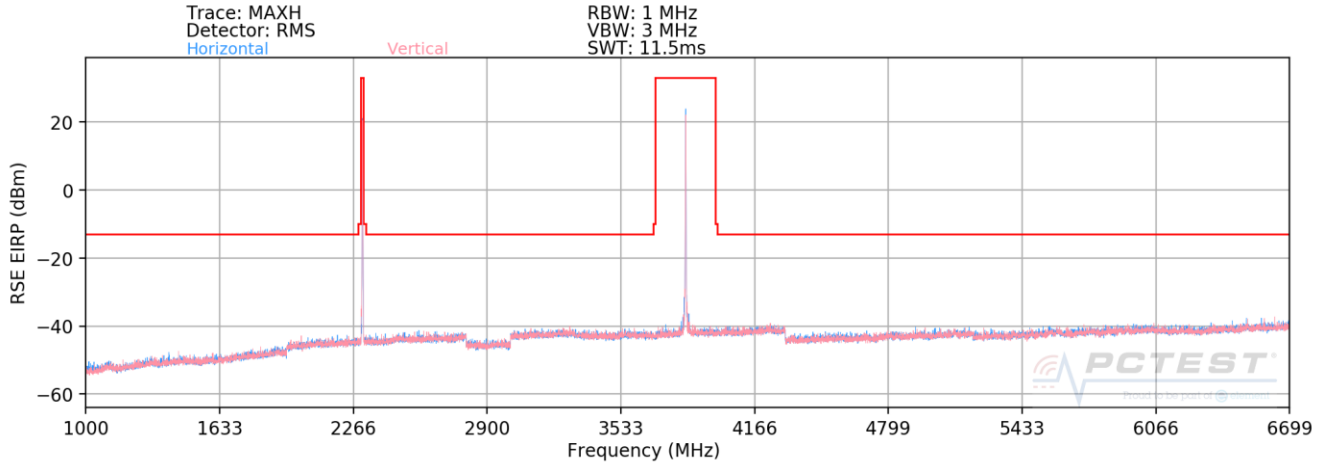
Bandwidth (MHz):	100 & 20
Frequency (MHz):	3840 & 1880
RB / Offset:	1 / 136 & 1 / 50
Mode:	EN-DC
Anchor Band:	2

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]
4000.0	H	-	-	-72.17	17.05	51.88	-43.38	-13.00	-30.38
5800.0	H	-	-	-73.49	21.06	54.57	-40.69	-13.00	-27.69
7680.0	H	133	126	-55.71	16.67	67.96	-27.29	-13.00	-14.29
7760.0	H	-	-	-74.78	16.56	48.78	-56.02	-13.00	-43.02
9720.0	H	-	-	-75.68	19.67	50.99	-53.81	-13.00	-40.81

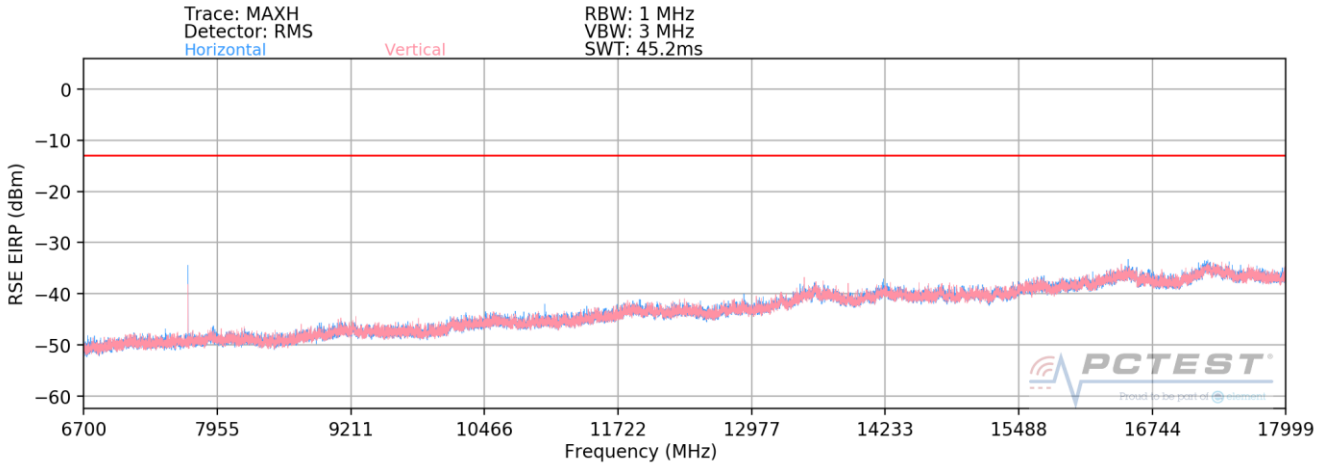
Table 7-43. Radiated Spurious Data (NR Band n77 PC2 – EN-DC Anchor B2)

FCC ID: A3LSMS906U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 176 of 181

EN-DC: NR n77 (Ant F) – LTE Band 30



Plot 7-265. Radiated Spurious Plot (NR Band n77 PC2 – EN-DC Anchor B30)





Plot 7-266. Radiated Spurious Plot (NR Band n77 PC2 – EN-DC Anchor B30)

Bandwidth (MHz):	100 & 10
Frequency (MHz):	3840 & 2310
RB / Offset:	1 / 136 & 1 / 25
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]
2280.0	H	-	-	-80.59	13.50	39.91	-55.35	-13.00	-42.35
5370.0	H	-	-	-73.04	20.10	54.06	-41.20	-13.00	-28.20
6900.0	H	-	-	-73.99	15.06	48.07	-47.19	-13.00	-34.19
7680.0	H	114	307	-52.49	16.67	71.18	-33.62	-13.00	-20.62
9990.0	H	101	38	-51.70	20.33	75.63	-29.17	-13.00	-16.17
11520.0	H	110	239	-54.02	22.90	75.88	-28.92	-13.00	-15.92
15360.0	H	-	-	-74.14	28.56	61.42	-43.38	-13.00	-30.38

Table 7-44. Radiated Spurious Data (NR Band n77 PC2 – EN-DC Anchor B30)

FCC ID: A3LSMS906U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 177 of 181

7.9 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.

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.

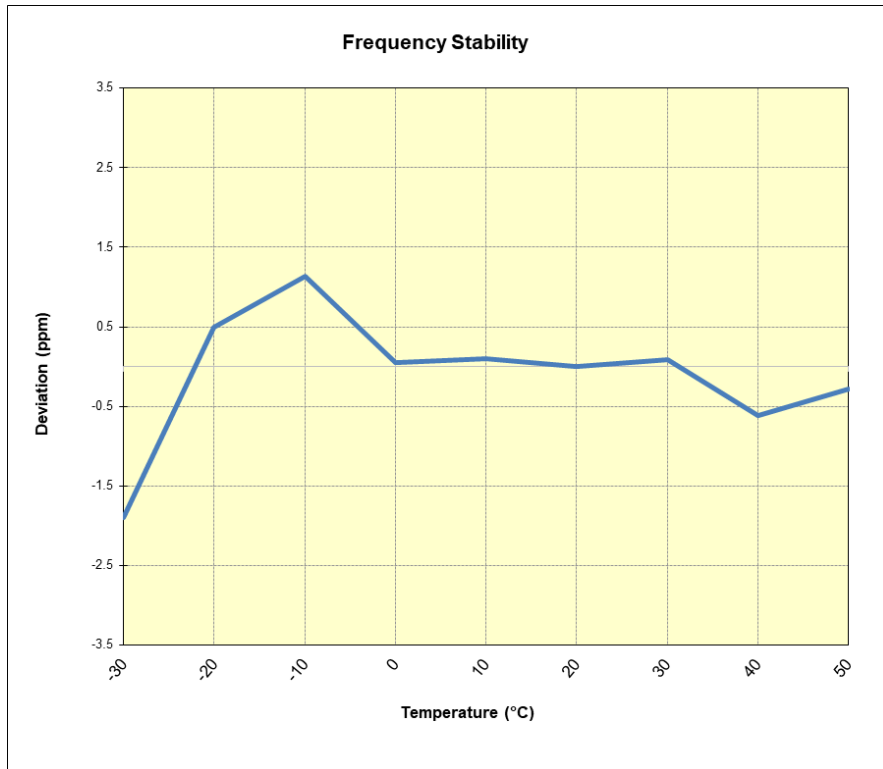
Test Notes

None

FCC ID: A3LSMS906U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 C-Band					
Operating Frequency (Hz):		3,840,000,000			
Ref. Voltage (VDC):		4.43			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	3,839,978,332	-7,299	-0.0001901
		- 20	3,839,987,544	1,913	0.0000498
		- 10	3,839,990,004	4,372	0.0001138
		0	3,839,985,846	214	0.0000056
		+ 10	3,839,986,017	385	0.0000100
		+ 20 (Ref)	3,839,985,632	0	0.0000000
		+ 30	3,839,985,982	350	0.0000091
		+ 40	3,839,983,262	-2,370	-0.0000617
Battery Endpoint	3.36	+ 20	3,839,985,541	-90	-0.0000024

Table 7-45. NR Band n77 (C-Band) Frequency Stability Data



Plot 7-267. NR Band n77 (C-Band) Frequency Stability Chart

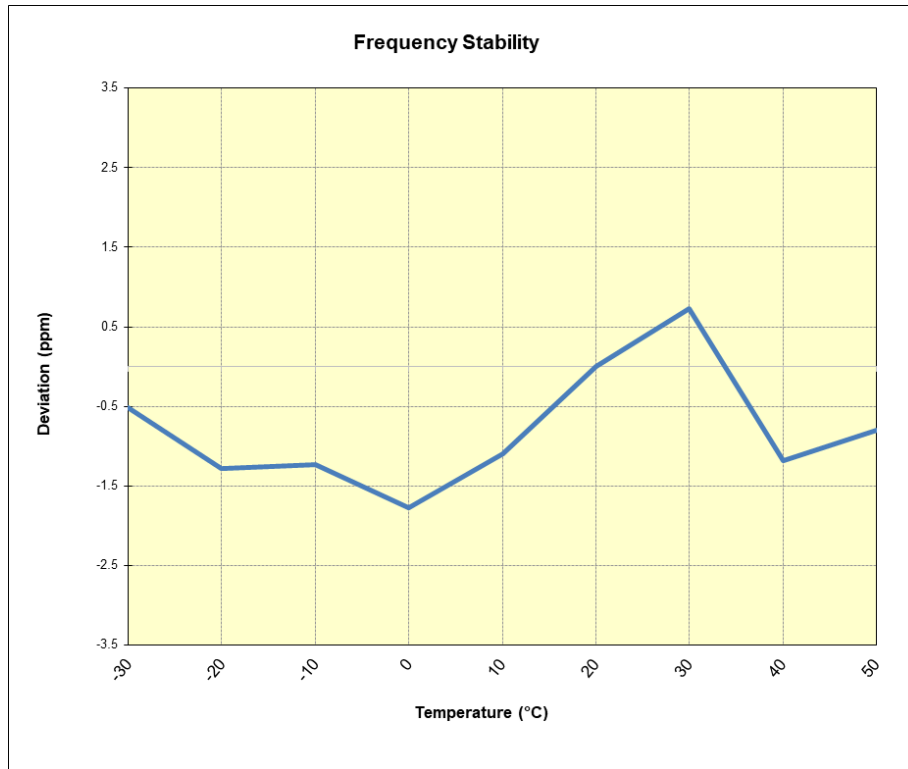
FCC ID: A3LSMS906U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset		Page 179 of 181

NR Band n77 DoD

Operating Frequency (Hz):	3,500,000,000
Ref. Voltage (VDC):	4.43

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	3,500,002,453	-1,792	-0.0000512
		- 20	3,499,999,764	-4,481	-0.0001280
		- 10	3,499,999,929	-4,316	-0.0001233
		0	3,499,998,032	-6,213	-0.0001775
		+ 10	3,500,000,406	-3,839	-0.0001097
		+ 20 (Ref)	3,500,004,245	0	0.0000000
		+ 30	3,500,006,812	2,567	0.0000733
		+ 40	3,500,000,118	-4,127	-0.0001179
Battery Endpoint	3.36	+ 20	3,500,002,376	-1,869	-0.0000534

Table 7-46. NR Band n77 (DoD) Frequency Stability Data





Plot 7-268. NR Band n77 (DoD) Frequency Stability Chart

FCC ID: A3LSMS906U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	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: A3LSMS906U** complies with all the requirements of Part 27 of the FCC rules.

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