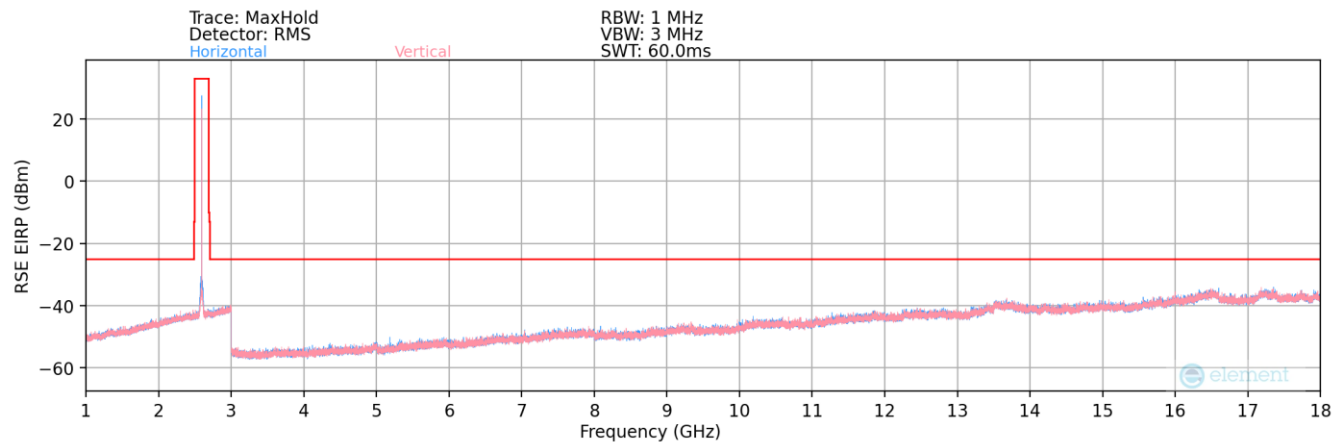
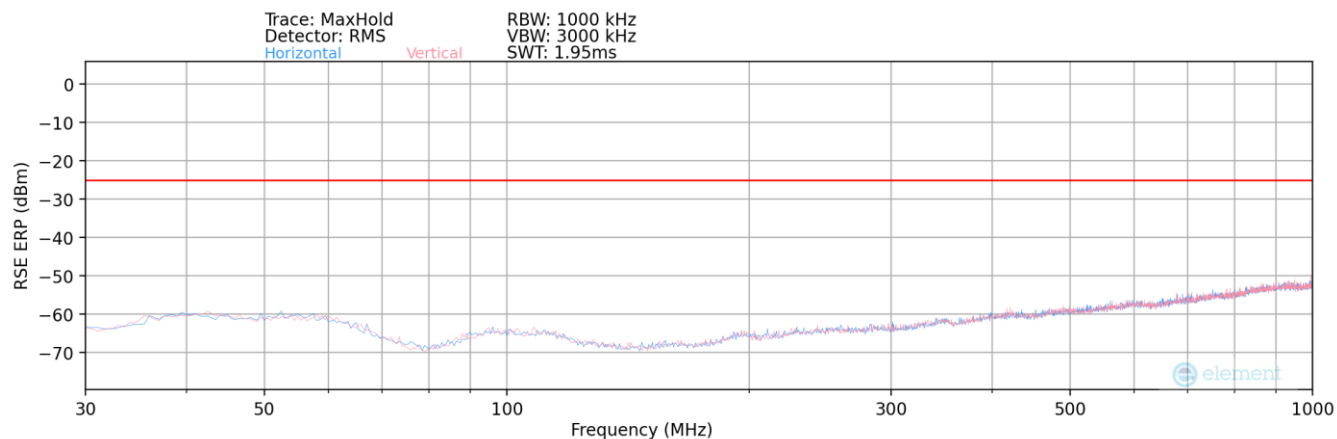


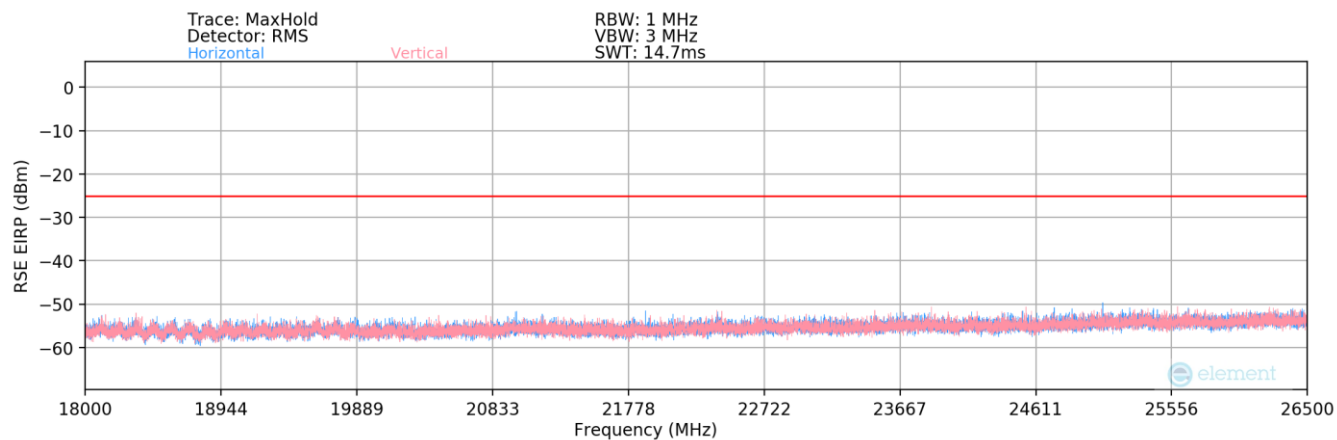
LTE Band 41 (PC3)– Ant1



Plot 7-68. Radiated Spurious Plot (LTE Band 41(PC3)) – Ant1



Plot 7-69. Radiated Spurious Plot (LTE Band 41(PC3)) – Ant1



Plot 7-70. Radiated Spurious Plot (LTE Band 41(PC3)) – Ant1

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 80 of 92

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
410.00	H	-	-	-66.47	-7.92	32.61	-64.80	-25.00	-39.80

Table 7-20. Radiated Spurious Data (LTE Band 41(PC3)) – Ant1

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]
5012.00	H	-	-	-70.62	10.12	46.50	-48.76	-25.00	-23.76
7518.00	H	-	-	-73.64	15.55	48.91	-46.35	-25.00	-21.35
10024.00	H	-	-	-75.59	18.98	50.39	-44.87	-25.00	-19.87

Table 7-21. Radiated Spurious Data (LTE Band 41(PC3)– Low Channel) – Ant1

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]
5186.00	H	-	-	-71.73	10.38	45.65	-49.61	-25.00	-24.61
7779.00	H	-	-	-73.30	15.44	49.14	-46.11	-25.00	-21.11
10372.00	H	-	-	-74.60	19.53	51.93	-43.33	-25.00	-18.33

Table 7-22. Radiated Spurious Data (LTE Band 41(PC3)– Mid Channel) – Ant1

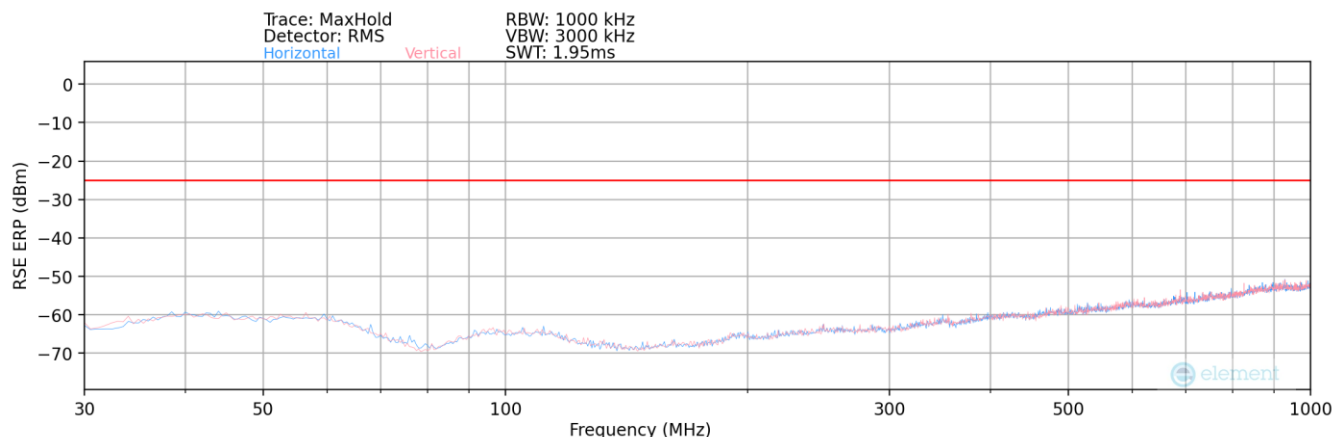
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

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]
5360.00	H	-	-	-72.82	10.79	44.97	-50.29	-25.00	-25.29
8040.00	H	-	-	-74.20	16.08	48.88	-46.38	-25.00	-21.38
10720.00	H	-	-	-75.37	20.23	51.86	-43.39	-25.00	-18.39

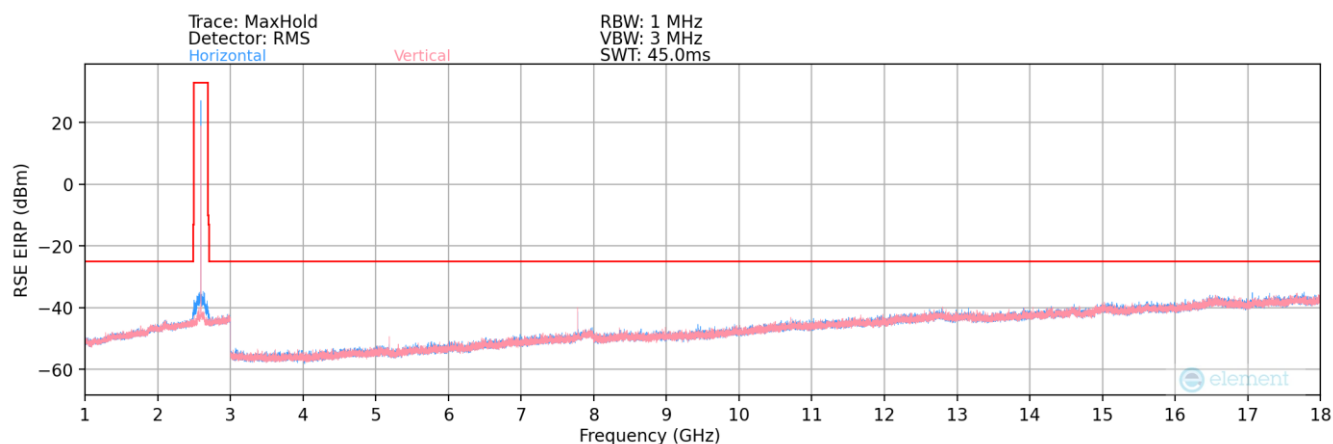
Table 7-23. Radiated Spurious Data (LTE Band 41(PC3)– High Channel) – Ant1

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 81 of 92

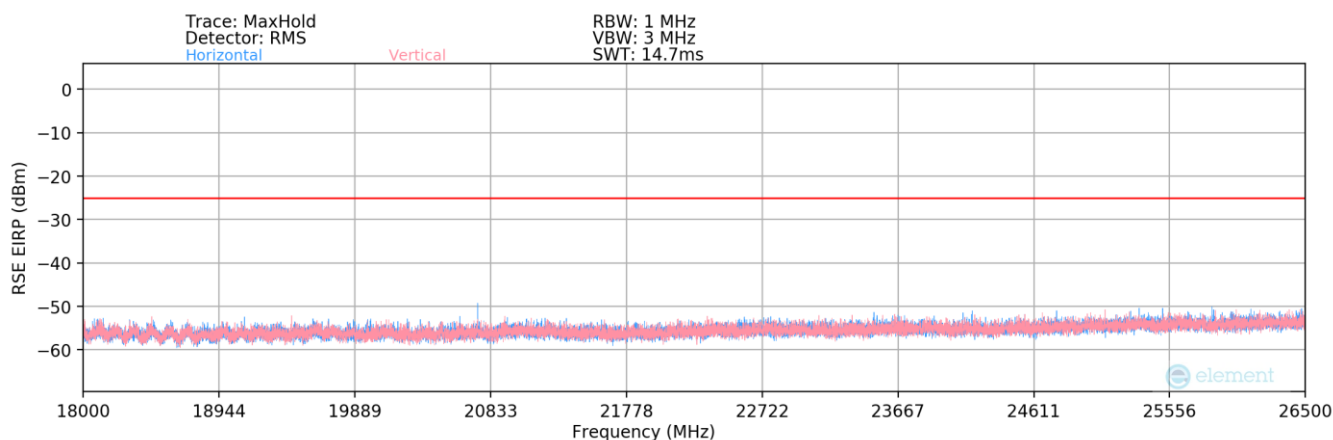
NR Band n41(PC3) – Ant1



Plot 7-71. Radiated Spurious Plot (NR Band n41(PC3) – Default – Ant1)



Plot 7-72. Radiated Spurious Plot (NR Band n41(PC3) – Default – Ant1)



Plot 7-73. Radiated Spurious Plot NR Band n41(PC3) – Default – Ant1

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 82 of 92

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
150.00	V	-	-	-71.50	-16.75	18.75	-78.66	-25.00	-53.66

Table 7-24. Radiated Spurious Data (NR Band n41(PC3) – Default – Ant1

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
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]
5092.02	V	112	303	-66.46	10.03	50.57	-44.69	-25.00	-19.69
7638.03	V	-	-	-72.64	15.72	50.08	-45.17	-25.00	-20.17
10184.04	V	-	-	-73.56	19.66	53.10	-42.15	-25.00	-17.15
12730.05	V	-	-	-76.04	23.53	54.49	-40.77	-25.00	-15.77

Table 7-25. Radiated Spurious Data (NR Band n41(PC3) – Low Channel) – Default – Ant1

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
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]
5185.98	V	105	257	-71.64	10.38	45.74	-49.52	-25.00	-24.52
7778.97	V	121	94	-67.57	15.44	54.87	-40.38	-25.00	-15.38
10371.96	V	-	-	-73.48	19.53	53.05	-42.21	-25.00	-17.21
12964.95	V	-	-	-75.08	24.45	56.37	-38.89	-25.00	-13.89
15557.94	V	-	-	-76.21	28.35	59.14	-36.12	-25.00	-11.12

Table 7-26. Radiated Spurious Data (NR Band n41(PC3) – Mid Channel) – Default – Ant1

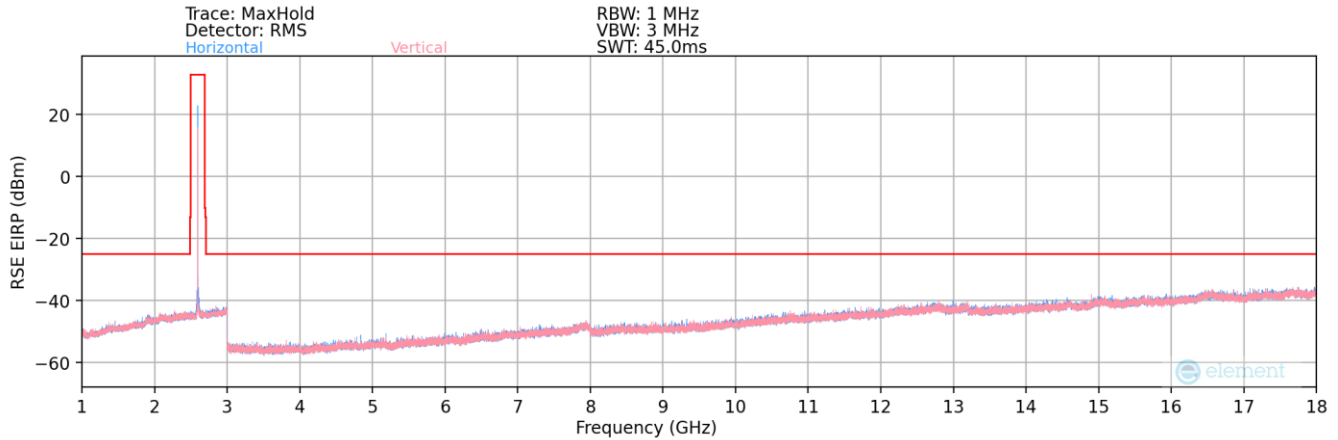
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
5280.00	V	114	6	-70.94	10.27	46.33	-48.93	-25.00	-23.93
7920.00	V	124	25	-68.23	15.63	54.40	-40.86	-25.00	-15.86
10560.00	V	-	-	-74.46	19.93	52.47	-42.79	-25.00	-17.79
13200.00	V	-	-	-75.52	24.37	55.85	-39.41	-25.00	-14.41
15840.00	V	-	-	-76.18	27.84	58.66	-36.59	-25.00	-11.59

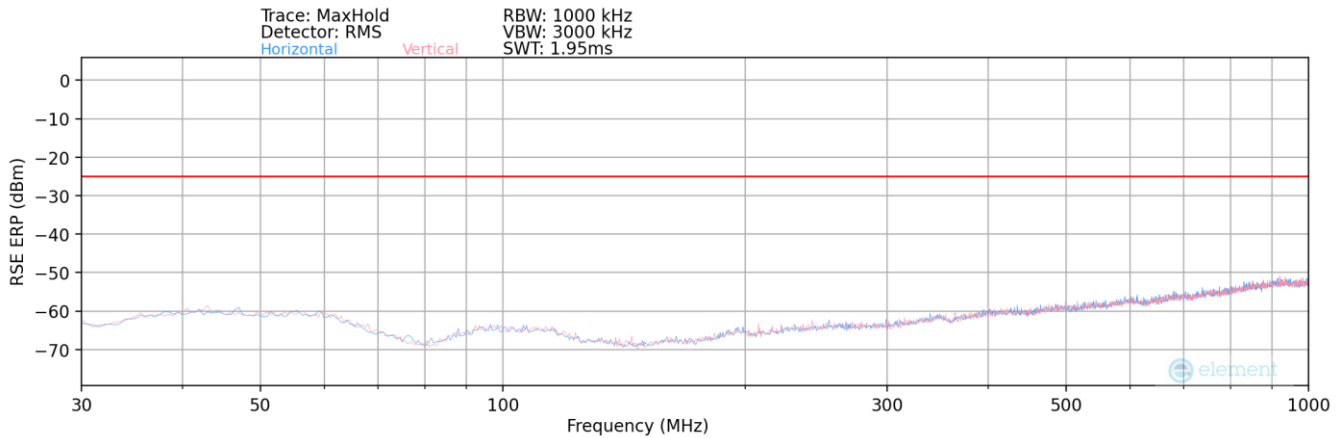
Table 7-27. Radiated Spurious Data (NR Band n41(PC3) – High Channel) – Default – Ant1

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1-A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 83 of 92

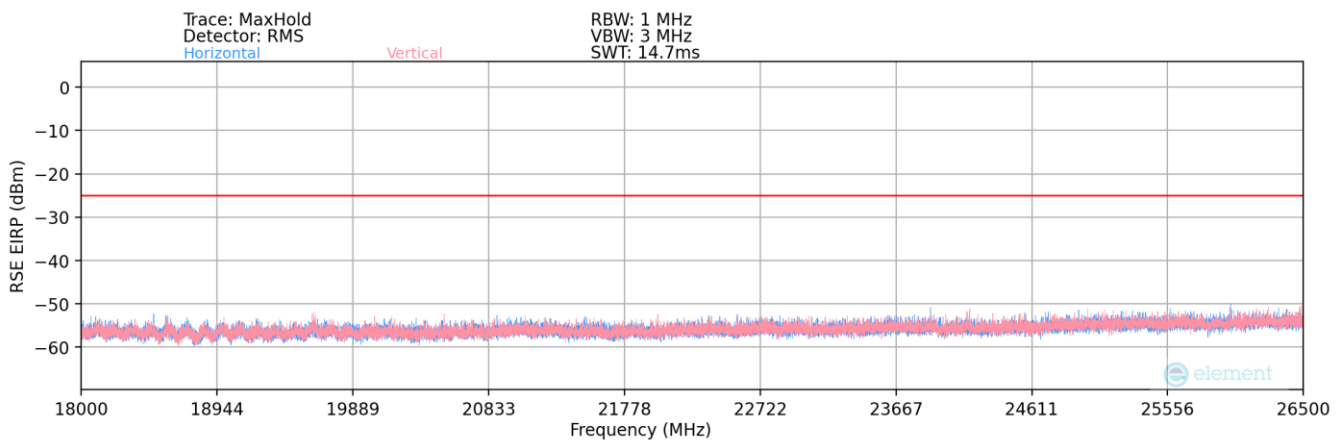
LTE Band 41(PC3)– Ant2



Plot 7-74. Radiated Spurious Plot (LTE Band 41(PC3)) – Ant2



Plot 7-75. Radiated Spurious Plot (LTE Band 41(PC3)) – Ant2



Plot 7-76. Radiated Spurious Plot (LTE Band 41(PC3)) – Ant2

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 84 of 92

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
642.00	H	-	-	-86.30	-4.14	16.56	-80.85	-25.00	-55.85

Table 7-28. Radiated Spurious Data (LTE Band 41(PC3) – Ant2)

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]
5012.00	H	165	347	-65.82	7.48	48.66	-46.60	-25.00	-21.60
7518.00	H	-	-	-70.93	12.92	48.99	-46.27	-25.00	-21.27
10024.00	H	-	-	-72.82	15.50	49.68	-45.58	-25.00	-20.58
12530.00	H	-	-	-73.68	19.48	52.80	-42.46	-25.00	-17.46

Table 7-29. Radiated Spurious Data (LTE Band 41(PC3) – Low Channel) – Ant2

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]
5186.00	H	156	329	-64.55	7.20	49.65	-45.61	-25.00	-20.61
7779.00	H	149	331	-66.76	12.98	53.22	-42.04	-25.00	-17.04
10372.00	H	-	-	-72.87	16.51	50.64	-44.61	-25.00	-19.61
12965.00	H	-	-	-72.55	19.86	54.31	-40.94	-25.00	-15.94
15558.00	H	-	-	-73.72	23.57	56.85	-38.41	-25.00	-13.41

Table 7-30. Radiated Spurious Data (LTE Band 41(PC3) – Mid Channel) – Ant2

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]
5360.00	H	171	354	-64.74	8.00	50.26	-45.00	-25.00	-20.00
8040.00	H	-	-	-70.75	13.16	49.41	-45.85	-25.00	-20.85
10720.00	H	-	-	-73.14	17.46	51.32	-43.94	-25.00	-18.94
13400.00	H	-	-	-73.42	20.69	54.27	-40.99	-25.00	-15.99

Table 7-31. Radiated Spurious Data (LTE Band 41(PC3) – High Channel) – Ant2

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 85 of 92

7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26:2015. 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 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26:2015 – Section 5.6

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.

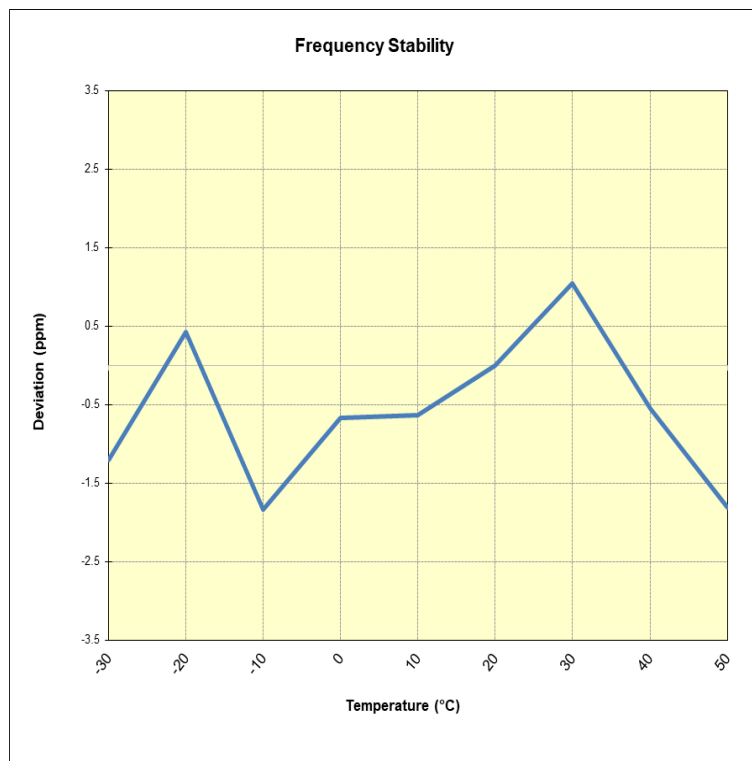
Test Notes

None

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 86 of 92

LTE Band 41					
Operating Frequency (Hz):			2,593,000,000		
Ref. Voltage (VDC):			4.446		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	2,593,078,664	-3,114	-0.0001201
		- 20	2,593,082,900	1,122	0.0000433
		- 10	2,593,077,039	-4,739	-0.0001828
		0	2,593,080,041	-1,737	-0.0000670
		+ 10	2,593,080,129	-1,649	-0.0000636
		+ 20 (Ref)	2,593,081,778	0	0.0000000
		+ 30	2,593,084,500	2,722	0.0001050
		+ 40	2,593,080,374	-1,404	-0.0000541
		+ 50	2,593,077,091	-4,687	-0.0001808
Battery Endpoint	3.648	+ 20	2,593,084,425	2,647	0.0001021

Table 7-32. LTE Band 41(PC3) Frequency Stability Data



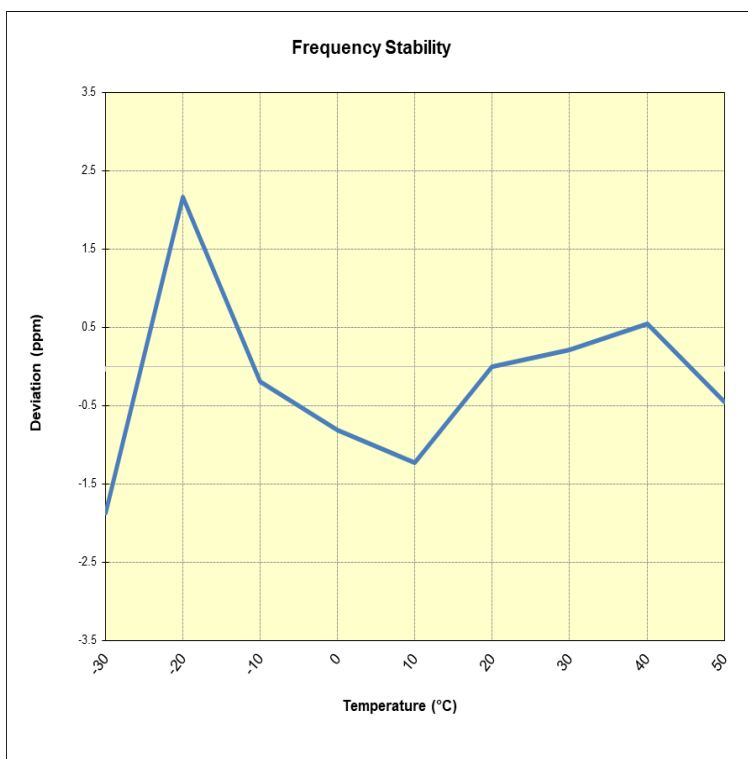
Plot 7-77. LTE Band 41(PC3) Frequency Stability Chart

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 87 of 92

NR Band n41

<table><tr><td>Operating Frequency (Hz):</td><td colspan="5">2,593,000,000</td></tr><tr><td>Ref. Voltage (VDC):</td><td colspan="5">4.446</td></tr></table>						Operating Frequency (Hz):	2,593,000,000					Ref. Voltage (VDC):	4.446				
Operating Frequency (Hz):	2,593,000,000																
Ref. Voltage (VDC):	4.446																
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)												
100 %	4.446	- 30	2,593,157,100	-4,858	-0.0001873												
		- 20	2,593,167,585	5,627	0.0002170												
		- 10	2,593,161,453	-505	-0.0000195												
		0	2,593,159,868	-2,090	-0.0000806												
		+ 10	2,593,158,768	-3,190	-0.0001230												
		+ 20 (Ref)	2,593,161,958	0	0.0000000												
		+ 30	2,593,162,528	570	0.0000220												
		+ 40	2,593,163,370	1,412	0.0000545												
		+ 50	2,593,160,776	-1,182	-0.0000456												
Battery Endpoint	3.648	+ 20	2,593,159,257	-2,701	-0.0001042												

Table 7-33. NR Band n41 Frequency Stability Data



Plot 7-78. NR Band n41 Frequency Stability Chart

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 88 of 92

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMA576JPN** complies with all the requirements of Part 27 of the FCC rules. **FCC ID: A3LSMA576U** (Model: SM-A576U1) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMA576JPN**

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 89 of 92

9.0 APPENDIX A – DATA REFERENCING RESULTS

Overview

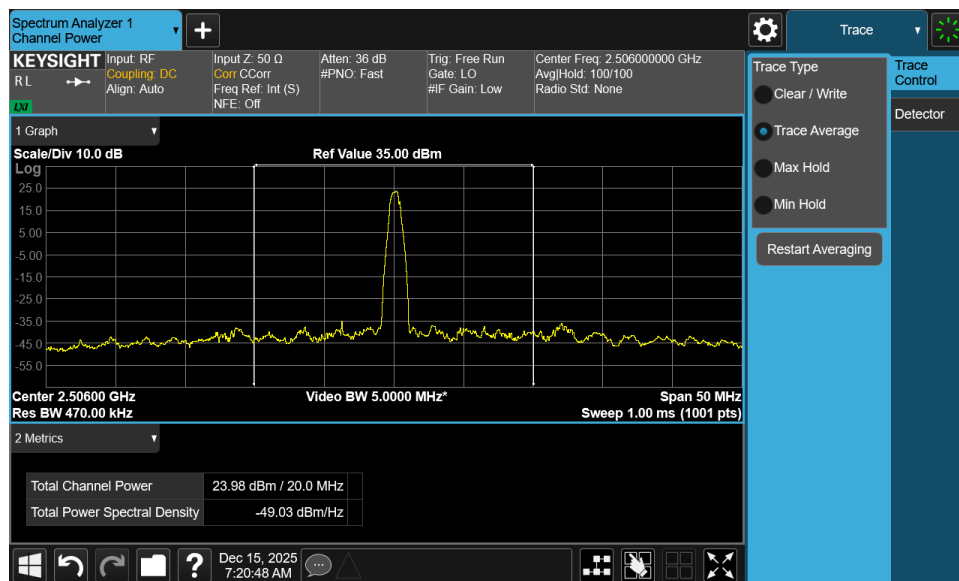
The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.26-2015.

Notes

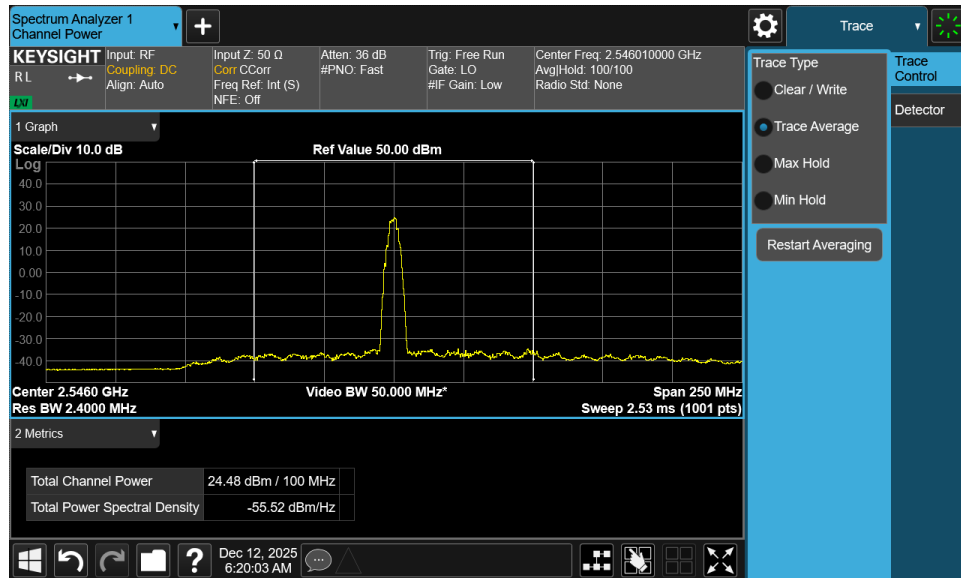
1. Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.
2. This device supports PC3 only and does not implement PC2, whereas FCC ID: A3LSMA576U supports both PC2 and PC3. Accordingly, data referencing was performed using PC3 results, with compliance verified through spot-check evaluation.

Conducted Spot-Checks – SC-54G

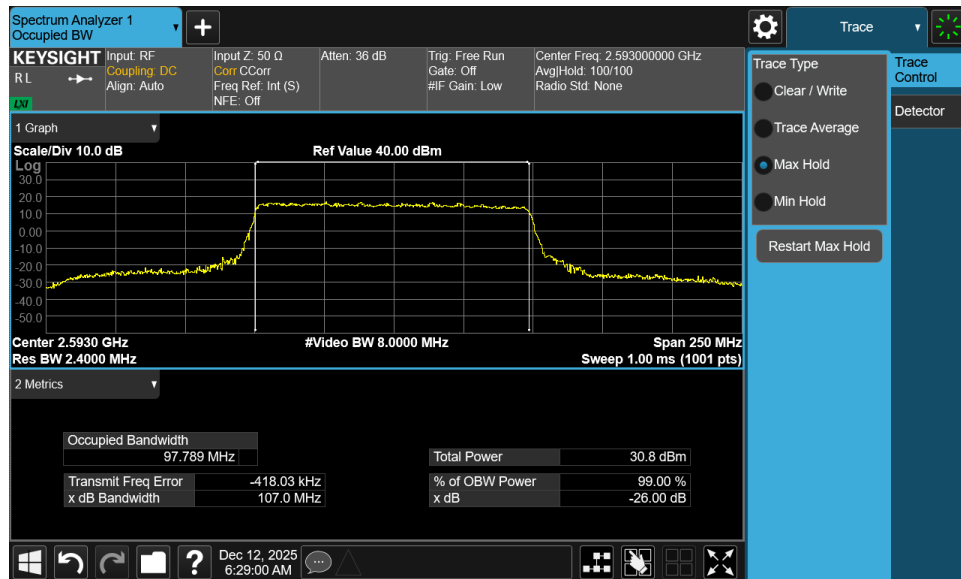


Plot 9-1. Conducted Output Power Measurements (Spot-check) – LTE Band B41

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 90 of 92



Plot 9-2. Conducted Output Power Measurements (Spot-check) – NR Band n41



Plot 9-3. Occupied Bandwidth (Spot-check) - NR Band n41

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 91 of 92

Radiated Spot-Checks – SC-54G

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2680.0	H	118	198	4.00	1 / 99	19.67	23.67	0.233	33.01	-9.34

Table 9-1. EIRP Measurements (Spot-check) – LTE Band B41

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	QPSK	2592.99	H	205	243	4.31	1 / 136	18.18	22.49	0.178	33.01	-10.52

Table 9-2. EIRP Measurements (Spot-check) – NR Band n41

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]
7778.97	V	-	-	-66.86	12.98	53.12	-42.14	-25.00	-17.14

Table 9-3. Radiated Spurious Measurements (Spot-check) – NR Band n41

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-A576U1	Variant Model: SC-54G	Deviation (dB)	Max Deviation (dB)	Pass/Fail
27	Conducted Output Power	Low Ch. 39750, 20MHz, QPSK, ANT B	dBm	N/A	23.99	23.98	-0.01	1	PASS
	EIRP	Mid Ch. 40620, 20MHz, QPSK, ANT B	dBm	33.01	23.26	23.67	0.41	3	PASS

Table 9-4. Summary of Spot-checks – LTE Band B41

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-A576U1	Variant Model: SC-54G	Deviation (dB)	Max Deviation (dB)	Pass/Fail
27	Conducted Output Power	Low Ch. 509202, 100MHz, QPSK, Ant B	dBm	N/A	23.97	24.48	0.51	1	PASS
	Occupied Bandwidth	Mid Ch. 518598, 100MHz, QPSK, ANT B	MHz	N/A	97.97	97.79	-0.18	N/A	PASS
	EIRP	Hi Ch. 528000, 100MHz, QPSK, Ant B	dBm	33.01	23.81	22.49	-1.32	3	PASS
	RSE	Mid Ch. 518598, 100MHz, QPSK, 7779MHz, ANT B	dBm	-25	-40.38	-42.14	-1.76	3	PASS

Table 9-5. Summary of Spot-checks – NR Band n41

- END OF TEST REPORT -

FCC ID: A3LSMA576JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 92 of 92