



Plot 7-108. PAR Plot (LTE Band 13 - 5MHz QPSK - Full RB)



Plot 7-109. PAR Plot (LTE Band 13 - 5MHz 16-QAM - Full RB)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dago 75 of 04
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	raye 15 01 94

V3.0 1/5/2022



LTE Band 66/4



Plot 7-110. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB)



Plot 7-111. PAR Plot (LTE Band 66/4 - 20MHz 16-QAM - 27 RB)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 76 of 04
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 70 01 94

V3.0 1/5/2022





Plot 7-112. PAR Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)



Plot 7-113. PAR Plot (LTE Band 66/4 - 15MHz 16-QAM - 27 RB)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 77 of 04	
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 77 01 94	
	•		V3.0 1/5	5/2022





Plot 7-114. PAR Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)



Plot 7-115. PAR Plot (LTE Band 66/4 - 10MHz 16-QAM - 27 RB)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Daga 78 of 04	
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 70 01 94	
			V3.0 1/5	5/2022





Plot 7-116. PAR Plot (LTE Band 66/4 - 5MHz QPSK - Full RB)



Plot 7-117. PAR Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Daga 70 of 04	
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 79 01 94	
			V3.0 1/5	5/2022





Plot 7-118. PAR Plot (LTE Band 66/4 - 3MHz QPSK - Full RB)



Plot 7-119. PAR Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Daga 80 of 04	
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 60 01 94	
			V3.0 1/5	5/2022









Plot 7-121. PAR Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 91 of 04	
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage of 01 94	
			V3.0 1/5	/2022



7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an external antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 - Section 5.5.4

Test Settings

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

Test Setup

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



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

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 92 of 04	
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 62 01 94	
			V3.0 1/5	5/2022





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

Test Notes

1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:

a) $E(dB\mu V/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m) b) EIRP (dBm) = E(dB\mu V/m) + 20logD - 104.8; where D is the measurement distance in meters.$

- 2) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 3) 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.
- 4) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 92 of 04	
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 03 01 94	
			V3.0 1/5	/2022

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LTE Band 12





Bandwidth (MHz):		10							
Frequency (MHz):		707.5							
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]







FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Faye 04 01 94	
	•	·	V3.0 1/5	/202



Bandwidth (MHz):	10
Frequency (MHz):	704
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]
1408.00	V	140	147	-62.40	-2.55	42.05	-53.20	-13.00	-40.20
2112.00	V	-	-	-77.19	1.42	31.23	-64.03	-13.00	-51.03
2816.00	V	-	-	-77.69	3.62	32.93	-62.33	-13.00	-49.33
3520.00	V	-	-	-78.38	4.35	32.97	-62.29	-13.00	-49.29
4224.00	V	375	275	-78.47	5.51	34.04	-61.22	-13.00	-48.22
4928.00	V	-	-	-79.50	7.07	34.57	-60.68	-13.00	-47.68
5632.00	V	-	-	-79.51	8.24	35.73	-59.53	-13.00	-46.53
6336.00	V	274	180	-75.10	9.57	41.47	-53.79	-13.00	-40.79

Table 7-6. Radiated Spurious Data (LTE Band 12 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
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]
1415.00	V	126	166	-59.09	-2.53	45.38	-49.88	-13.00	-36.88
2122.50	V	-	-	-77.43	1.53	31.10	-64.15	-13.00	-51.15
2830.00	V	235	75	-77.38	3.27	32.89	-62.36	-13.00	-49.36
3537.50	V	-	-	-78.21	4.37	33.16	-62.10	-13.00	-49.10
4245.00	V	130	316	-77.68	5.52	34.84	-60.42	-13.00	-47.42
4952.50	V	213	162	-77.82	7.02	36.20	-59.06	-13.00	-46.06
5660.00	V	-	-	-79.61	8.33	35.72	-59.54	-13.00	-46.54
6367.50	V	303	170	-74.07	9.67	42.60	-52.66	-13.00	-39.66

Table 7-7. Radiated Spurious Data (LTE Band 12 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	711
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]
1422.00	V	127	157	-61.49	-2.44	43.07	-52.18	-13.00	-39.18
2133.00	V	-	-	-77.55	1.64	31.09	-64.17	-13.00	-51.17
2844.00	V	228	80	-77.33	3.09	32.76	-62.49	-13.00	-49.49
3555.00	V	-	-	-78.13	4.47	33.34	-61.92	-13.00	-48.92
4266.00	V	-	-	-78.93	5.28	33.35	-61.91	-13.00	-48.91
4977.00	V	303	347	-78.71	6.90	35.19	-60.07	-13.00	-47.07
5688.00	V	-	-	-79.59	8.19	35.60	-59.66	-13.00	-46.66
6399.00	V	-	-	-79.62	9.56	36.94	-58.32	-13.00	-45.32

Table 7-8. Radiated Spurious Data (LTE Band 12 – High Channel)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 85 of 04		
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Page 85 01 94		
			V3.0 1/5	5/2022	



LTE Band 13





Bandwidth (MHz):		10							
Frequency (MHz):	782.0								
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
641.28	Н	-	-	-97.91	28.08	37.17	-60.24	-13.00	-47.24
	Table 7-0	Padiatod	Sourious	Data /I TI	E Band 1	3 _ Mid (Channel)		

Table 7-9. Radiated Spurious Data (LTE Band 13 – Mid Channel)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 86 of 94		
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module			
			V3.0 1/5	5/2022	







Bandwidth (MHz):		10							
Frequency (MHz):	782								
RB / Offset:	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]
1564.00	Н	-	-	-77.01	-1.36	28.63	-66.62	-40.00	-26.62
2346.00	Н	-	-	-77.62	2.33	31.71	-63.54	-13.00	-50.54
3128.00	Н	-	-	-78.02	3.72	32.70	-62.56	-13.00	-49.56

Table 7-10. Radiated Spurious Data (LTE Band 13 – Mid Channel)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 97 of 04	
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 67 01 94	
			V3.0 1/5	5/2022



LTE Band 66/4





Bandwidth (MHz):		20								
Frequency (MHz):	: 1745									
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]	
750.77	V	-	-	-90.04	29.49	46.45	-50.96	-13.00	-37.96	
	Table 7.44 Dedicted Coursians Date (LTE Dand (C/A _ Mid Channel)									







FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dama 00 af 04		
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Page 88 of 94		
			V3.0 1/5	2022/	



Bandwidth (MHz):	20
Frequency (MHz):	1720
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]
3440.00	V	376	83	-74.58	2.70	35.12	-60.14	-13.00	-47.14
5160.00	V	-	-	-79.29	4.73	32.44	-62.81	-13.00	-49.81
6880.00	V	313	212	-58.71	7.12	55.41	-39.85	-13.00	-26.85
8600.00	V	284	111	-58.38	8.26	56.88	-38.38	-13.00	-25.38
10320.00	V	238	7	-70.71	10.13	46.42	-48.84	-13.00	-35.84
12040.00	V	327	197	-74.10	13.52	46.42	-48.84	-13.00	-35.84
13760.00	V	283	222	-80.60	14.37	40.77	-54.49	-13.00	-41.49
15480.00	V	202	201	-76.58	16.22	46.64	-48.62	-13.00	-35.62

Table 7-12. Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745
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]
3490.00	V	382	262	-73.24	2.29	36.05	-59.21	-13.00	-46.21
5235.00	V	-	-	-79.22	4.65	32.43	-62.83	-13.00	-49.83
6980.00	V	393	211	-59.99	6.38	53.39	-41.87	-13.00	-28.87
8725.00	V	302	177	-55.86	8.06	59.20	-36.06	-13.00	-23.06
10470.00	V	220	6	-72.23	11.17	45.94	-49.32	-13.00	-36.32
12215.00	V	287	215	-79.33	13.21	40.88	-54.37	-13.00	-41.37
13960.00	V	388	276	-81.75	13.68	38.93	-56.33	-13.00	-43.33
15705.00	V	208	202	-79.11	16.86	44.75	-50.50	-13.00	-37.50

Table 7-13. Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770
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]
3540.00	V	122	302	-73.08	2.27	36.19	-59.07	-13.00	-46.07
5310.00	V	-	-	-79.13	4.53	32.40	-62.86	-13.00	-49.86
7080.00	V	391	204	-60.78	6.82	53.04	-42.22	-13.00	-29.22
8850.00	V	272	200	-57.31	8.19	57.88	-37.37	-13.00	-24.37
10620.00	V	396	206	-66.01	11.11	52.10	-43.16	-13.00	-30.16
12390.00	V	349	199	-80.14	13.24	40.10	-55.16	-13.00	-42.16
14160.00	V	-	-	-81.89	14.21	39.32	-55.94	-13.00	-42.94
15930.00	V	309	187	-79.60	16.72	44.12	-51.14	-13.00	-38.14

Table 7-14. Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX	PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:	Daga 80 of 04			
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 09 01 94			
	V3.0 1/5/20:					



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: RI7LE910C1SNX IC: 5131A-LE910C1SNX	PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dage 00 of 04		
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 90 01 94		
V3.0 1/5/20					



Frequency Stability / Temperature Variation

LTE Band 12							
	Operating F	requency (Hz):	707,500	0,000	1		
	Ref.	Voltage (VDC):	3.9	0]		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
		- 30	707,847,485	-1,041	-0.0001470		
		- 20	707,848,011	-515	-0.0000727		
		- 10	707,849,892	1,366	0.0001930		
		0	707,847,392	-1,133	-0.0001601		
100 %	3.90	+ 10	707,847,761	-764	-0.0001079		
		+ 20 (Ref)	707,848,525	0	0.0000000		
		+ 30	707,846,978	-1,548	-0.0002186		
		+ 40	707,847,121	-1,404	-0.0001984		
		+ 50	707,847,937	-589	-0.0000832		
85 %	3.32	+ 20	707,847,373	-1,152	-0.0001628		
115 %	4.49	+ 20	707,848,065	-460	-0.0000650		

Table 7-15. LTE Band 12 Frequency Stability Data



Plot 7-128. LTE Band 12 Frequency Stability Chart

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX	PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 01 of 04
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 91 01 94
			1/0 0 1/5



Frequency Stability / Temperature Variation

LTE Band 13								
	Operating F	requency (Hz):	782,00	0,000				
	Ref.	Voltage (VDC):	3.9	0				
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)			
		- 30	782,014,936	-926	-0.0001185			
		- 20	782,014,159	-1,704	-0.0002178			
		- 10	782,014,196	-1,667	-0.0002132			
		0	782,015,063	-799	-0.0001022			
100 %	3.90	+ 10	782,015,237	-626	-0.0000800			
		+ 20 (Ref)	782,015,863	0	0.0000000			
		+ 30	782,016,215	353	0.0000451			
		+ 40	782,016,603	741	0.0000947			
		+ 50	782,017,136	1,274	0.0001629			
85 %	3.32	+ 20	782,015,638	-225	-0.0000287			
115 %	4.49	+ 20	782,015,866	3	0.0000004			

Table 7-16. LTE Band 13 Frequency Stability Data



Plot 7-129. LTE Band 13 Frequency Stability Chart

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX	PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 02 of 04			
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 92 01 94			
	V3.0 1/5/202					



Frequency Stability / Temperature Variation

LTE Band 66/4										
	Operating Frequency (Hz):		1,745,000,000							
	Ref. Voltage (VDC):		3.90							
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)					
100 %	3.90	- 30	1,745,065,474	-3,654	-0.0002094					
		- 20	1,745,069,846	717	0.0000411					
		- 10	1,745,068,841	-288	-0.0000165					
		0	1,745,065,398	-3,731	-0.0002138					
		+ 10	1,745,066,653	-2,476	-0.0001419					
		+ 20 (Ref)	1,745,069,129	0	0.0000000					
		+ 30	1,745,067,078	-2,051	-0.0001175					
		+ 40	1,745,066,709	-2,419	-0.0001386					
		+ 50	1,745,070,262	1,133	0.0000649					
85 %	3.32	+ 20	1,745,070,226	1,097	0.0000629					
115 %	4.49	+ 20	1,745,069,346	217	0.0000125					

Table 7-17. LTE Band 66/4 Frequency Stability Data



Plot 7-130. LTE Band 66/4 Frequency Stability Chart

PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT		Technical Manager	
Test Dates:	EUT Type:	Dogo 02 of 04	
03/21/2023 - 03/31/2023	Module	Fage 95 01 94	
	Test Dates: 03/21/2023 - 03/31/2023	EUT Type: 03/21/2023 - 03/31/2023 Module	



8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Telit Module FCC ID: RI7LE910C1SNX / IC: 5131A-LE910C1SNX** complies with all the requirements of Part 27 of the FCC rules and RSS-130, RSS-139 of the ISED rules.

FCC ID: RI7LE910C1SNX IC: 5131A-LE910C1SNX		PART 27 / RSS-130 & RSS-139 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 04 of 04	
1M2303070020-03-R1.RI7	03/21/2023 - 03/31/2023	Module	Fage 94 01 94	
			1/2 0 1/5/	