



FCC / ISED Test Report

For:
Telular Corporation

Model Name:
ST100

Product Description:
Telematic Gateway for Communicating Measurement Data

FCC ID: MFTST1002
ISED: 2175D-ST1001

Applied Rules and Standards:
47 CFR Part 15.247 (DTS)
RSS-247 Issue 4 (DTS) & RSS-Gen Issue 5

REPORT #: TELUL_232_25001_15_247_BTLE_DTS

DATE: 2025-10-30



IC recognized #
3462B

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CETECOM Inc. is a Delaware Corporation with Corporation number: 2905571

TABLE OF CONTENTS

1	ASSESSMENT	3
2	ADMINISTRATIVE DATA.....	4
2.1	IDENTIFICATION OF THE TESTING LABORATORY ISSUING THE EMC TEST REPORT.....	4
2.2	IDENTIFICATION OF THE CLIENT	4
2.3	IDENTIFICATION OF THE MANUFACTURER.....	4
3	EQUIPMENT UNDER TEST (EUT)	5
3.1	EUT SPECIFICATIONS	5
3.2	EUT POWER SETTING.....	6
3.3	EUT SAMPLE DETAILS	6
3.4	ACCESSORY EQUIPMENT (AE) DETAILS	6
3.5	TEST SAMPLE CONFIGURATION.....	6
3.6	JUSTIFICATION FOR WORST CASE MODE OF OPERATION.....	6
4	SUBJECT OF INVESTIGATION	7
5	MEASUREMENT RESULTS SUMMARY.....	7
6	MEASUREMENT UNCERTAINTY	8
6.1	ENVIRONMENTAL CONDITIONS DURING TESTING:.....	8
6.2	DATES OF TESTING:	8
6.3	DECISION RULE:	8
7	MEASUREMENT PROCEDURES.....	9
7.1	RADIATED MEASUREMENT	9
7.2	POWER LINE CONDUCTED MEASUREMENT PROCEDURE.....	11
7.3	RF CONDUCTED MEASUREMENT PROCEDURE	11
8	TEST RESULT DATA.....	12
8.1	RADIATED TRANSMITTER SPURIOUS EMISSIONS AND RESTRICTED BANDS.....	12
9	TEST SETUP PHOTOS.....	18
10	TEST EQUIPMENT AND ANCILLARIES USED FOR TESTING	18
11	HISTORY	19

1 Assessment

The following device was evaluated against the applicable criteria specified in FCC rules Parts 15.247 of Title 47 of the Code of Federal Regulations and the relevant ISED Canada standard RSS-247.

There were no additions, deviations, or exclusions made from the test method.

Company Name	Product Description	Model No.
Telular Corporation	Telematic Gateway for Communicating Measurement Data	ST100

Report Authorized by:

Responsible for testing Laboratory:

Alvin, Ilarina (Director of EMC Services)			
2025-10-30	Compliance		
Date	Section	Name	Signature

Responsible for the Report:

Art Thammanavarat (Lead Engineer)			
2025-10-30	Compliance		
Date	Section	Name	Signature

The test results of this test report relate exclusively to the test item specified in Section 3.

CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM Inc. USA.

2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	CETECOM Inc.
Department:	Compliance
Street Address:	411 Dixon Landing Road
City/Zip Code	Milpitas, CA 95035
Country	USA
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
EMC Lab Manager:	Alvin, Ilarina
Responsible Project Leader:	Jayalakshmi, Sekar

2.2 Identification of the Client

Applicant's Name:	Telular Corporation
Street Address:	3225 Cumberland Blvd., Suite 300
City/Zip Code	Atlanta, GA 30339
Country	USA

2.3 Identification of the Manufacturer

Manufacturer's Name:	Same as client
Manufacturers Address:	
City/Zip Code	
Country	

3 Equipment Under Test (EUT)

3.1 EUT Specifications

Model No	ST100
HW Version	B
SW Version	v2.60
FCC-ID	MFTST1002
ISED:	2175D-ST1001
HVIN:	ST1002
PMN:	SkyTank
Product Description	Telematic Gateway for Communicating Measurement Data
Frequency Range / number of channels:	<u>BLE</u> Nominal band: 2400 MHz – 2483.5 MHz Center to center: 2402 MHz (ch 0) – 2480 MHz (ch 39), 40 channels
Bands/Modes Supported	<u>Bluetooth Modules</u> Model Name: SmartBond TINYTM Module Model Number: DA14531MOD FCC: Y82-DA14531MOD ISED: 9576A-DA14531MOD <u>Wireless Technologies</u> BLE
Modes of Operation:	GFSK
Antenna Information as declared:	BLE: (integrated on module)
Other Radios included in the device	Cellular, ISM900
Power Supply/ Rated Operating Voltage Range	4VDC to 7.4VDC (internal battery; 4 Energizer L91 cell is 4S1P configuration)
Operating Temperature Range	-20C to +70C
Sample Revision	☐ Production ☒ Pre-Production
EUT Dimensions	190mm x 130mm x 45mm
EUT Diameter	☒ < 60 cm ☐ Other _____
Note: The information of the EUT specifications in the table above is provided by the client.	

3.2 EUT Power Setting

Channel Number	2400 – 2483.5 MHz	
	1Mbit/s	2Mbit/s
Low	B3	N/A
Mid	B3	N/A
High	B3	N/A

3.3 EUT Sample details

EUT #	Model Number	HW Version	SW Version	Comments
1	ST100	B	V2.60	N/A

3.4 Accessory Equipment (AE) details

AE #	Type	Model	Manufacturer	Serial Number	Comments
1	Laptop	P135G	Dell	12243628947	Support laptop provided by Cetecom to exercise device.
2	Pre-Production	ST131	Telular Corporation	001	
3	TTL-232RG-VIP Cable	-	-	-	Debug Cable

3.5 Test Sample Configuration

EUT Set-up #	Combination of AE used for test set up	Comments
1	EUT#1 + AE1,2,3	BLE was tested on Advertising mode. The client provides a TTL-232RG-VIP USB cable to communicate with the device and send commands for configuring the BLEr into a specific test mode. This test mode configuration, designed for worst-case scenarios, is not intended for end-user application and is outlined as follows: • EUT power by 6Vdc battery • The EUT connected to support laptop using TTL-232RG-VIP USB Cable provided by customer to exercise device. • Radiated RF measurements were performed with EUT configured via TerraTerm and customer provided instructions

3.6 Justification for Worst Case Mode of Operation

During the testing process, the EUT was tested with transmitter sets on Advertising mode. For radiated measurements, all data in this report shows the worst case between horizontal and vertical antenna polarizations and for all orientations of the EUT.

4 Subject of Investigation

The objective of the measurements done by CETECOM Inc. was to assess the performance of the EUT according to the relevant requirements specified in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and Radio Standard Specification RSS-247 of ISED Canada.

Testing procedures are based on 558074 D01 15.247 Meas Guidance v05r02 – “GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES” - April 2, 2019, by the Federal Communications Commission, Office of Engineering and Technology, Laboratory Division.

5 Measurement Results Summary

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	NA	NP	Result
§15.247(a)(1) RSS-247 5.2(a)	Emission Bandwidth	Nominal	BTLE	☐	☒	☐	NA See Note 1, 2
§15.247(e) RSS-247 5.2(b)	Power Spectral Density	Nominal	BTLE	☐	☒	☐	NA See Note 1, 3
§15.247(b)(1) RSS-247 5.4(d)	Maximum Conducted Output Power and EIRP	Nominal	BTLE	☐	☒	☐	NA See Note 1, 4
§15.247(d) RSS-247 5.5	Band edge compliance Unrestricted Band Edges	Nominal	BTLE	☐	☒	☐	NA See Note 1, 5
§15.247; 15.209; 15.205 RSS-Gen 8.9; 8.10	Band edge compliance Restricted Band Edges	Nominal	BTLE	☐	☒	☐	NA See Note 1, 6
§15.247(d); §15.209 RSS-Gen 6.13	TX Radiated Spurious Emissions	Nominal	BTLE	☒	☐	☐	Complies
§15.207(a) RSS Gen 8.8	AC Conducted Emissions	Nominal	BTLE	☐	☒	☐	NA See Note 1, 7

Note 1: This device does not connect to AC mains network

Note 2: Leveraged from report # 200330213GZU-001, Section 4.2 (FCC ID: Y82-DA14531MOD)

Note 3: Leveraged from report # 200330213GZU-001, Section 4.4 (FCC ID: Y82-DA14531MOD)

Note 4: Leveraged from report # 200330213GZU-001, Section 4.3 (FCC ID: Y82-DA14531MOD)

Note 5: Leveraged from report # 200330213GZU-001, Section 4.6 (FCC ID: Y82-DA14531MOD)

Note 6: Leveraged from report # 200330213GZU-001, Section 4.8 (FCC ID: Y82-DA14531MOD)

Note 7: This device does not connect to AC mains network

6 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus, with 95% confidence interval (in dB delta to result), based on a coverage factor $k=2$.

Radiated measurement

Measurement System		EMC Lab 1	EMC Lab 2
Conducted emissions (mains port)	150 kHz – 30 MHz	2.47 dB	N/A
Radiated emissions	9 kHz – 30 MHz	2.68 dB	2.53 dB
	30 – 100 MHz	4.39 dB	3.85 dB
	100 MHz – 1 GHz	5.65 dB	5.24 dB
	1 – 6 GHz	5.0 dB	4.88 dB
	6 – 18 GHz	4.76 dB	4.58 dB
	18 – 40 GHz	4.65 dB	4.61 dB

RF conducted measurement ± 0.5 dB

According to TR 102 273 a multiplicative propagation of error is assumed for RF measurement systems. For this reason the RMS method is applied to dB values and not to linear values as appropriate for additive propagation of error. Also used: <http://physics.nist.gov/cuu/Uncertainty/typeb.html>. The above calculated uncertainties apply to direct application of the Substitution method. The Substitution method is always used when the EUT comes closer than 3dB to the limit.

6.1 Environmental Conditions During Testing:

The following environmental conditions were maintained during the course of testing:

- Ambient Temperature: 20-25°C
- Relative humidity: 40-60%

6.2 Dates of Testing:

2025-10-20

6.3 Decision Rule:

Cetecom Inc. follows ILAC G8:09/2019 chapter 4.2.1 (Simple Acceptance Rule).

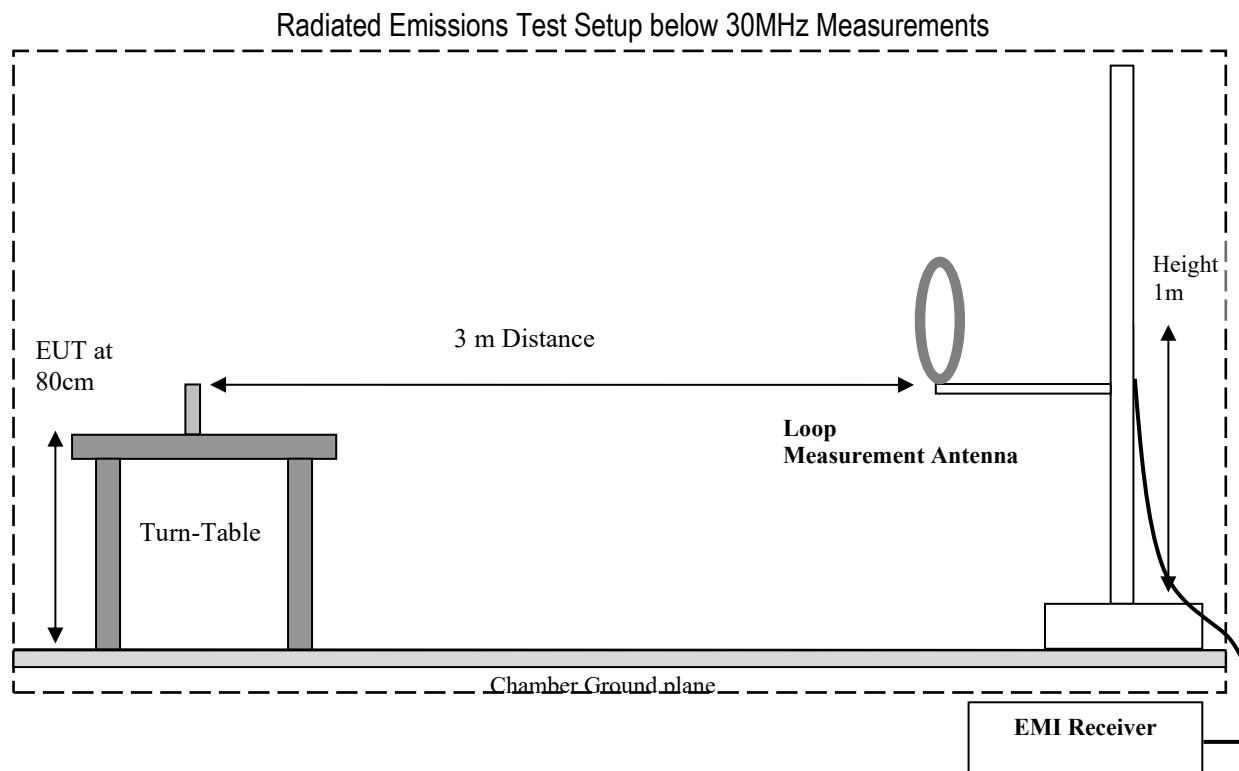
Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed in chapter 3. The measurement uncertainty is mentioned in this test report, See chapter 9, but is not taken into account – neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.

7 Measurement Procedures

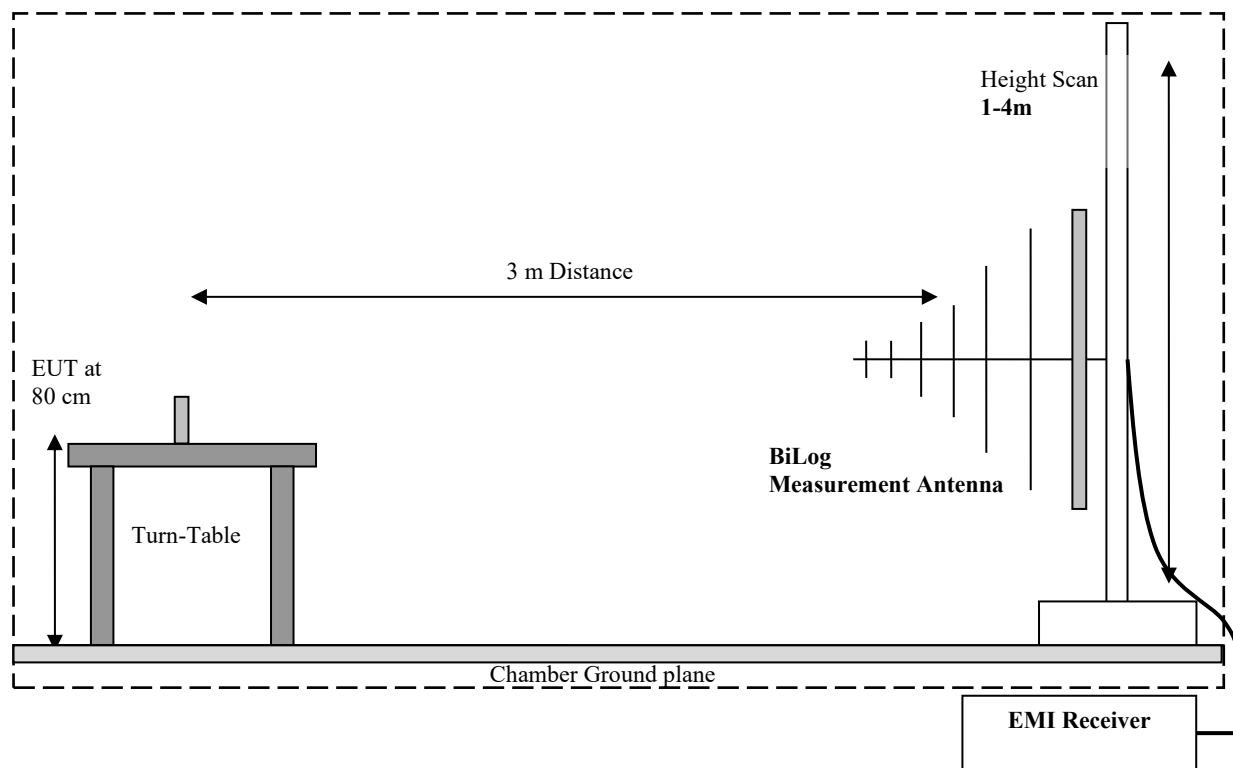
7.1 Radiated Measurement

The radiated measurement is performed according to ANSI C63.10 (2020)

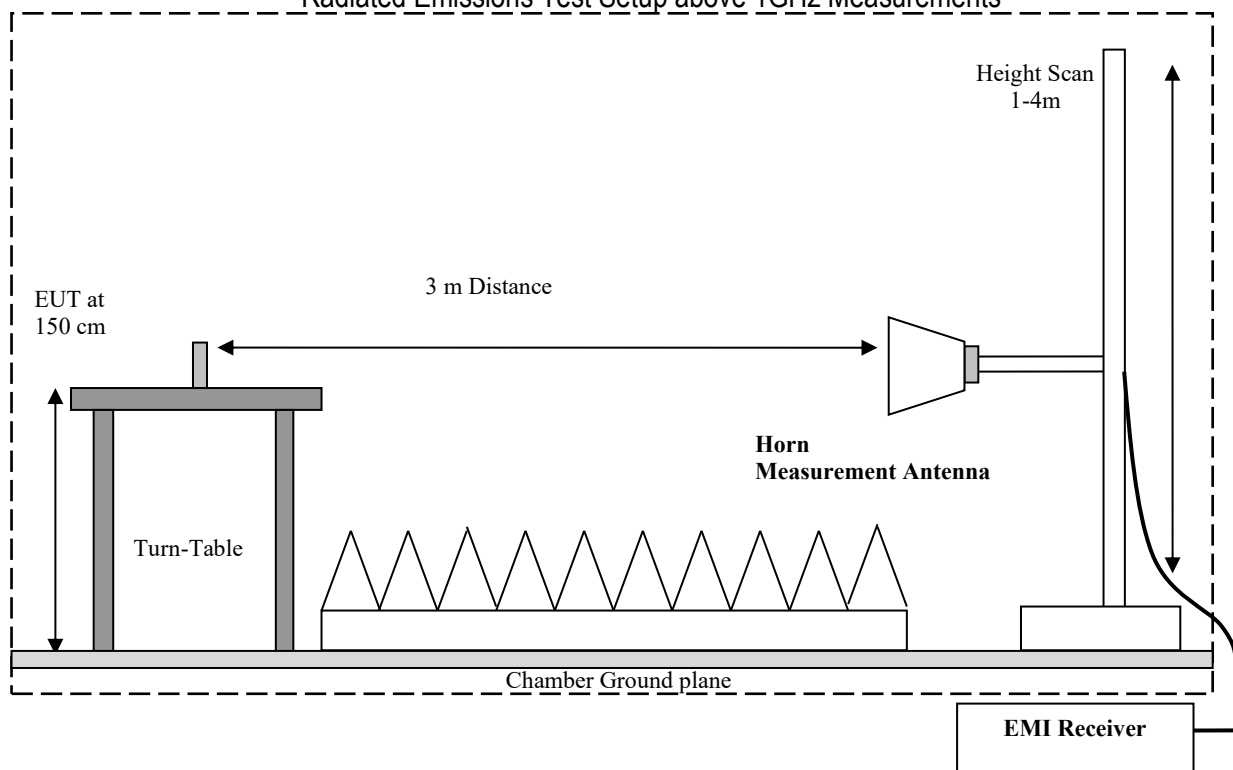
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to cover the 3 orthogonal axis of the EUT. A max peak detector is utilized during the exploratory measurement. The Test-SW creates an overall maximum trace for all 12 sweeps and saves the settings for each point of this trace. The maximum trace is part of the test report.
- The 10 highest emissions are selected with an automatic algorithm of EMC32 searching for peaks in the noise floor and ensuring that broadband signals are not selected multiple times.
- The maxima are then put through the final measurement and again maximized in a 90deg range of the turntable, fine search in frequency domain and height scan between 1m and 4m.
- The above procedure is repeated for all possible ways of power supply to EUT and for all supported modulations.
- In case there are no emissions above noise floor level only the maximum trace is reported as described above.
- The results are split up into up to 4 frequency ranges due to antenna bandwidth restrictions. A magnetic loop is used from 9 kHz to 30 MHz, a Biconilog antenna is used from 30 MHz to 1 GHz, and two different horn antennas are used to cover frequencies up to 40 GHz.



Radiated Emissions Test Setup 30MHz-1GHz Measurements



Radiated Emissions Test Setup above 1GHz Measurements



7.1.1 Sample Calculations for Field Strength Measurements

Field Strength is calculated from the Spectrum Analyzer/ Receiver readings, taking into account the following parameters:

1. Measured reading in dB μ V
2. Cable Loss between the receiving antenna and SA in dB and
3. Antenna Factor in dB/m

All radiated measurement plots in this report are taken from a test SW that calculates the Field Strength based on the following equation:

$$FS \text{ (dB}\mu\text{V/m)} = \text{Measured Value on SA (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$$

Example:

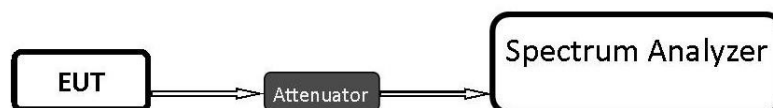
Frequency (MHz)	Measured SA (dB μ V)	Cable Loss (dB)	Antenna Factor Correction (dB)	Field Strength Result (dB μ V/m)
1000	80.5	3.5	14	98.0

7.2 Power Line Conducted Measurement Procedure

AC Power Line conducted emissions measurements performed according to: ANSI C63.4 (2014)

7.3 RF Conducted Measurement Procedure

Testing procedures are based on 558074 D01 15.247 Meas Guidance v05r02 – “GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES” - April 2, 2019, by the Federal Communications Commission, Office of Engineering and Technology, Laboratory Division.



- Connect the equipment as shown in the above diagram.
- Adjust the settings of the SA (Rohde-Schwarz Spectrum Analyzer) to connect the EUT at the required mode of test.
- Measurements are to be performed with the EUT set to the low, middle and high channels and for worst case modulation schemes.

8 Test Result Data

8.1 Radiated Transmitter Spurious Emissions and Restricted Bands

8.1.1 Measurement according to ANSI C63.10 (2020)

Spectrum Analyzer Settings:

- Frequency = 9 KHz – 30 MHz
- RBW = 9 KHz
- Detector: Peak

- Frequency = 30 MHz – 1 GHz
- Detector = Peak / Quasi-Peak
- RBW= 120 KHz (<1GHz)

- Frequency > 1 GHz
- Detector = Peak / Average
- RBW = 1 MHz

- Radiated spurious emissions shall be measured for the transmit frequencies, transmit power, and data rate for the lowest, middle and highest channel in each frequency band of operation and for the highest gain antenna for each antenna type, and using the appropriate parameters and test requirements.
- The highest (or worst-case) data rate shall be recorded for each measurement.
- For testing frequencies below 30 MHz at distance other than the specified in the standard, the limit conversion is calculated by using the FCC materials for the ANSI 63 committee issued on January, 27 1991.

8.1.2 Limits:

FCC §15.247

- In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

FCC §15.209 & RSS-Gen 8.9

- Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency of emission (MHz)	Field strength (μV/m)	Measurement Distance (m)	Field strength @ 3m (dBμV/m)
0.009–0.490	2400/F(kHz) / -----	300	-
0.490–1.705	24000/F(kHz) / -----	30	-
1.705–30.0	30 / (29.5)	30	-
30–88	100	3	40 dBμV/m
88–216	150	3	43.5 dBμV/m
216–960	200	3	46 dBμV/m
Above 960	500	3	54 dBμV/m

FCC §15.205 & RSS-Gen 8.10

- Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

- Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

*PEAK LIMIT= 74 dBμV/m

*AVG. LIMIT= 54 dBμV/m

8.1.3 Test conditions and setup:

Ambient Temperature	EUT Set-Up #	EUT operating mode	Power Input
22° C	1	GFSK	6 VDC

8.1.4 Measurement result:

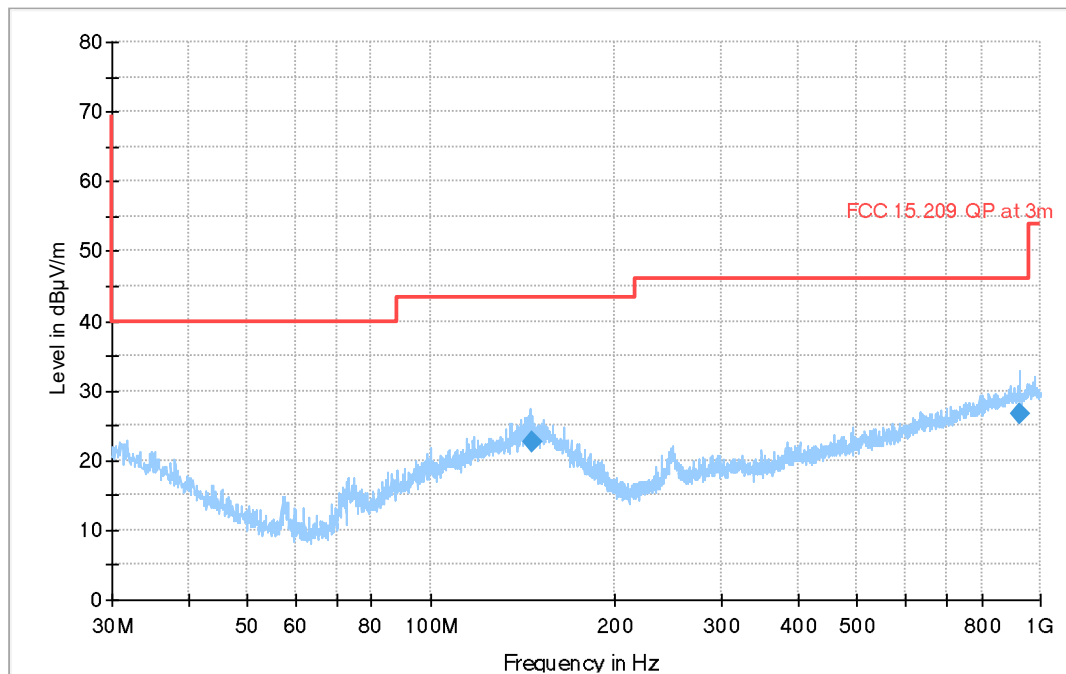
Plot #	Scan Frequency	Limit	Result
1-4	30MHz – 26 GHz	See section 8.1.2	Pass

8.1.5 Measurement Plots:

Plot # 1 Radiated Emissions: 30 – 1000MHz

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
146.143	22.608	---	43.50	20.89	500.0	120.0	191.0	V	163.0	-8.8	-34.4	0.0	25.6	31.4
923.320	26.709	---	46.02	19.31	500.0	120.0	233.0	V	252.0	-2.9	-31.9	0.0	29.0	29.7

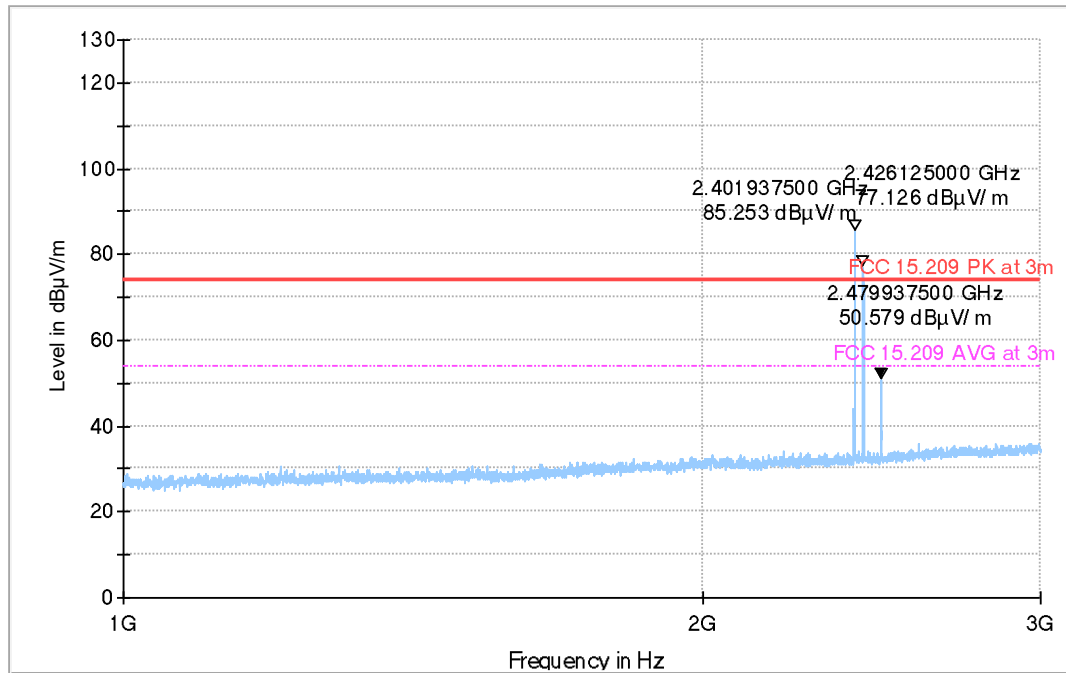


◆ Preview Result 1-PK+ Final_Result QPK
◆ FCC 15.209 QP at 3m Final_Result PK+

Plot # 2 Radiated Emissions: 1 – 3 GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)
---	---	---	---	---	---	---	---	---	---	---	---	---	---



Preview Result 1-PK+
FCC 15.209 AVG at 3m

* Critical_Freqs PK+
◆ Final_Result PK+

— FCC 15.209 PK at 3m
◆ Final_Result AVG

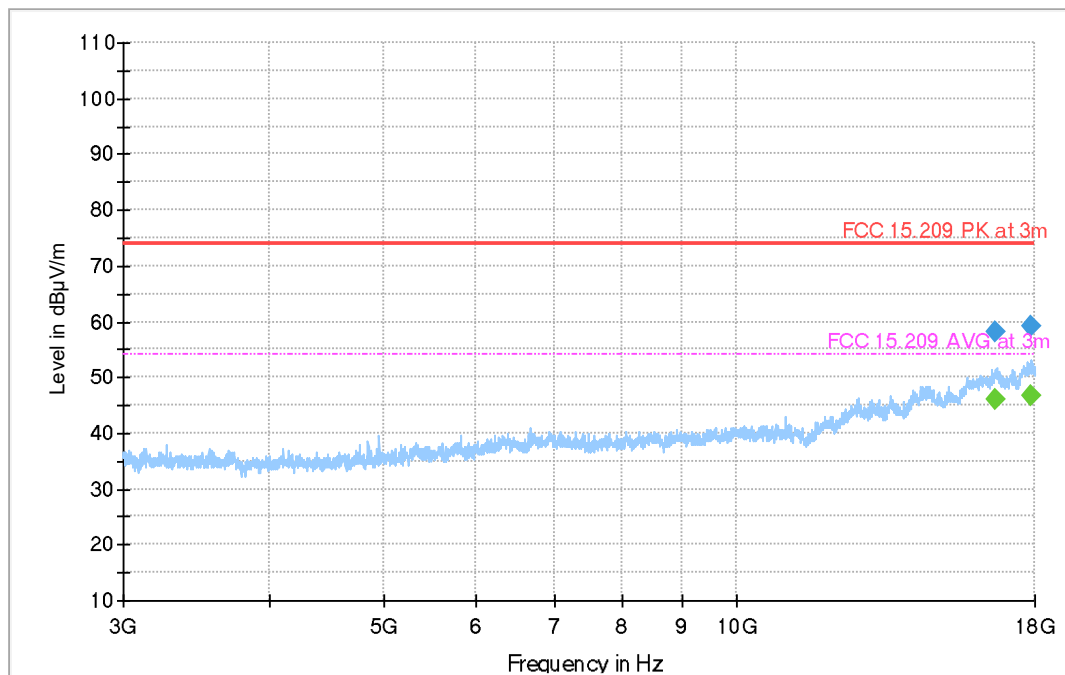
Plot # 3 Radiated Emissions: 3 - 18 GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)
16639.221	---	46.051	53.98	7.93	500.0	1000.0	144.0	H	60.0	13.8	15.2	-42.5	41.2
16639.221	58.144	---	73.98	15.84	500.0	1000.0	144.0	H	60.0	13.8	15.2	-42.5	41.2
17871.997	---	46.782	53.98	7.20	500.0	1000.0	162.0	V	100.0	14.7	15.5	-42.4	41.6
17871.997	59.167	---	73.98	14.81	500.0	1000.0	162.0	V	100.0	14.7	15.5	-42.4	41.6

(continuation of the "Final_Result" table from column 19 ...)

Frequency (MHz)	Raw Rec (dBμV)
16639.221	32.3
16639.221	44.4
17871.997	32.1
17871.997	44.5

◆ PK+_MAXH
Final_Result PK+◆ FCC 15.209 PK at 3m
Final_Result AVG

◆ FCC 15.209 AVG at 3m

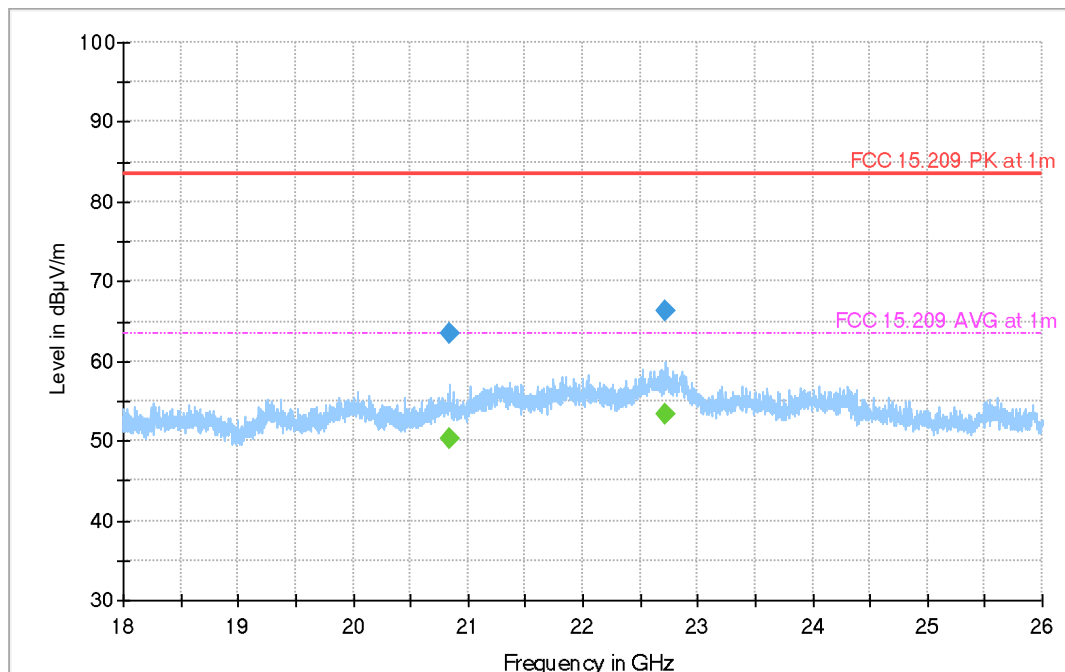
Plot # 4 Radiated Emissions: 18 - 26GHz

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)
20843.698	63.412	---	83.50	20.09	500.0	1000.0	150.0	V	111.0	18.2	9.4	0.0	8.8
20843.698	---	50.309	63.50	13.19	500.0	1000.0	150.0	V	111.0	18.2	9.4	0.0	8.8
22717.517	66.379	---	83.50	17.12	500.0	1000.0	150.0	H	343.0	21.1	9.8	0.0	11.4
22717.517	---	53.427	63.50	10.07	500.0	1000.0	150.0	H	343.0	21.1	9.8	0.0	11.4

(continuation of the "Final_Result" table from column 19 ...)

Frequency (MHz)	Raw Rec (dBμV)
20843.698	45.2
20843.698	32.1
22717.517	45.3
22717.517	32.3



Preview Result 1-PK+ Final_Result PK+ FCC 15.209 PK at 1m Final_Result AVG FCC 15.209 AVG at 1m

9 Test setup photos

Setup photos are included in supporting file name: "EMC_TELUL_232_25001_15_247_BTLE_DTS_Setup_Photos.pdf"

10 Test Equipment And Ancillaries Used For Testing

EMC Lab 2

Equipment Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
BILOG ANTENNA	A.H. SYSTEMS	BiLA2G	569	3 Years	09/08/2025
HORN ANTENNA	EMCO	3115	00035111	3 Years	09/04/2025
HORN ANTENNA	ETS LINDGREN	3117-PA	00167061	3 Years	09/04/2025
HORN ANTENNA	ETS LINDGREN	3116C-PA	00166821	3 Years	09/04/2025
ESW.EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW44	101715	3 Years	04/17/2024
DIGITAL THERMOMETER	Control Company	4410,90080-03	230712972	3 Years	10/18/2023
Signal Analyzer	R&S	FSV40	101022	3 Years	09/30/2025
Multimeter	Fluke	115	56090717MV	3 Years	09/25/2025
Software	EMC32	Version 10.50.40	-	-	-

Note: Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels.

Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before use.

11 History

Date	Report Name	Changes to report	Prepared by
2025-10-30	EMC_TELUL_232_25001_FCC_15_247_BTLE_DTS	Initial Version	Art Thammanavarat

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