





EMC TEST REPORT

Applicant:	Telit Communications SpA			
Address:	Viale Stazione di Prosecco 5/b			
Manufacturer or Supplier:	Telit Communications SpA			
Address:	Viale Stazione di Prosecco 5/b			
Product:	Module			
Brand Name:	Telit			
Model Name:	LE910S1-ELG			
IMEI:	351626109993580/351626109993	591		
FCC ID:	RI7LE910S1ELG			
Date of tests:	Nov. 25, 2021 ~ Dec. 08, 2021			
The submitted sam following standards		peen tested for according to the requirements of the		
☐ FCC Part 15, S ☑ FCC Part 15, S ☑ ANSI C63.4:20				
CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement				
•	pared by Simon Wang eer / Mobile Department Approved by Luke Lu Manager / Mobile Department			
Simon luke lu				
Date: Dec. 08, 2021 This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at				
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RELEASE CONTROL RECORD

ISSUE NO. REASON FOR CHANGE		DATE ISSUED
W7L-P21100027EM01	Original release	Dec. 08, 2021

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen51800, China

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1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Module		
BRAND NAME	Telit		
MODEL NAME	Module		
NOMINAL VOLTAGE	12Vdc (DC source) 3.8Vdc (Li-ion, battery		
	GPS/GLONASS/BD S/ GALILEO	BPSK	
Modulation	GPRS/EDGE	GMSK, 8PSK	
	LTE	QPSK/16QAM	
	GPS/ GLONASS /BDS/ GALILEO	1559MHz ~ 1610MHz	
OPERATING FREQUENCY	GPRS/EDGE	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR GSM 1900)	
OPERATING FREQUENCY	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 2502.5MHz ~ 2567.5MHz (FOR LTE Band7)	
HW VERSION	1.0		
SW VERSION	M0K.000001		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	USB cable: unshielded without ferrite, 1.0meter		
ACCESSORY DEVICES	Refer to note as below		

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B			
Standard Section Test Item		Result	
FCC Part 15,	Conducted Test	Compliance	
Subpart B, Class B ANSI C63.4:2014	Radiated Emission Test (30MHz ~ 1GHz)	Compliance	
	Radiated Emission Test (Above 1GHz)	Compliance	

1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	±2.70dB
	30MHz~1GMHz	±4.98dB
Radiated emissions	1GMHz ~6GMHz	±4.70dB
	6GMHz ~18GMHz	±4.60dB

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1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition	
Radiated emission test		
1	Working+GPRS 850 RX	
2	Working+LTE band 5 RX	

	Conducted emission test
1	Working+GPRS 850 RX
2	Working+LTE band 5 RX

NOTE:

- 1. For conducted emission test, Pre-scan two mode, mode 1was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, Pre-scan two mode, test mode 1 was the worst case and only this mode was presented in this report

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1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

FOR All TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Laptop	Lenovo	Thnikpad L440	R90FTFKP	N/A
2	Earphone	Xiao mi	N/A	N/A	N/A
3	Adapter	Xiao mi	MDY-12-EA	N/A	N/A
4	Micro SD	SAM SUNG	N/A	N/A	N/A
5	USB Cable	Xiao mi	N/A	N/A	N/A
6	FM signal generator	Rohde&Schw arz	SMB 100A	109279	N/A
7	GPS Simulator+Antenna	TOJOIN	GNSS-5000A	E1-010-010119	N/A
8	Universal radio communication tester	Rohde&Schw arz	CMW500	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS	
1	USB Line: Shielded, Detachable 1m;	
2	N/A	
3	N/A	



2 EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107 a CLASS B)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107 b CLASS A)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Mar. 03,21	Mar. 02, 22
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 25,21	Feb. 24, 22

NOTE: 1. The test was performed in CE shielded room.

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2.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit 20dB) were not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

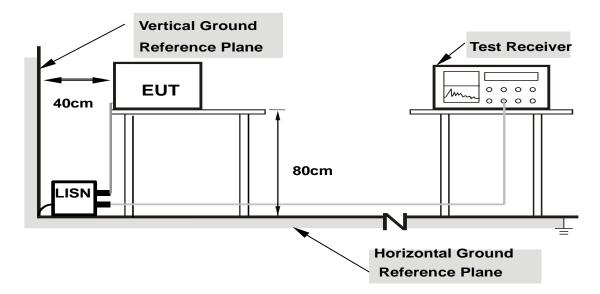
2.1.4 DEVIATION FROM TEST STANDARD

No deviation.

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2.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.



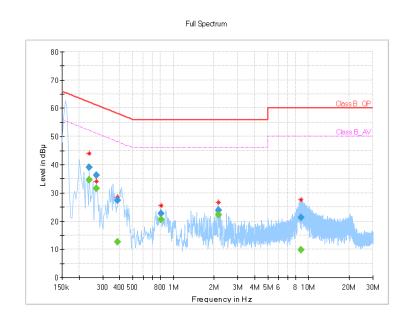
2.1.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Carl xie

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.238000		34.55	52.17	17.62	L1	ON	9.7
0.238000	38.98		62.17	23.19	L1	ON	9.7
0.268000		31.57	51.18	19.61	L1	ON	9.7
0.268000	36.24		61.18	24.94	L1	ON	9.7
0.384000		12.61	48.19	35.58	L1	ON	9.7
0.384000	27.40		58.19	30.79	L1	ON	9.7
0.808000		20.69	46.00	25.31	L1	ON	9.7
0.808000	22.67		56.00	33.33	L1	ON	9.7
2.152000		22.20	46.00	23.80	L1	ON	9.7
2.152000	23.77		56.00	32.23	L1	ON	9.7
8.824000		9.80	50.00	40.20	L1	ON	9.7
8.824000	21.36		60.00	38.64	L1	ON	9.7

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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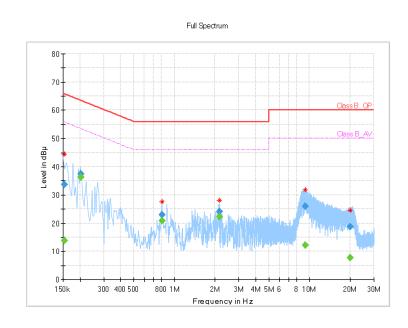


TEST VOLTAGE	Innut 120 Vac 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Carl xie

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154000		13.70	55.78	42.08	N	ON	9.7
0.154000	33.72		65.78	32.06	N	ON	9.7
0.204000		36.27	53.45	17.18	N	ON	9.7
0.204000	37.43		63.45	26.02	N	ON	9.7
0.808000		20.82	46.00	25.18	N	ON	9.7
0.808000	22.86		56.00	33.14	N	ON	9.7
2.152000		22.31	46.00	23.69	N	ON	9.8
2.152000	24.07		56.00	31.93	N	ON	9.8
9.280000		12.13	50.00	37.87	N	ON	9.8
9.280000	25.93		60.00	34.07	N	ON	9.8
19.928000		7.73	50.00	42.27	N	ON	9.9
19.928000	18.72		60.00	41.28	N	ON	9.9

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





2.2 RADIATED EMISSION MEASUREMENT

2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 3 meters (dBµV/m)						
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B				
30-88	49	40				
88-216	53.5	43.5				
216-960	56	46				
960-1000	59.5	54				
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 Peak: 74				

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- 4. QP detector shall be applied if not specified.



2.2.2 TEST INSTRUMENTS

Frequency range below1GHz

requestey range below rotte							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.		
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	May. 19,20	May. 18,23		
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22		
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22		
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22		
Test Software	ADT	ADT_Radiated _V8.7.07	N/A	N/A	N/A		

Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.	
3m Semi-anechoic	ETS-LINDGREN	0m*6m*6m	Euroshieldpn-	May 10 20	May. 18,23	
Chamber	E I S-LINDGREIN	9111 6111 6111	CT0001143-1216	May. 19,20		
Horn Antenna	ETS-LINDGREN	3117	00168728	May. 19,20	May. 18,23	
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22	
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22	

NOTE: 1. The test was performed in 3m chamber.

2. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

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2.2.3 TEST PROCEDURE

<Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Emission level Limit value.

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<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 1Hz for Average detection (AV) at frequency above 1GHz.
- 3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 6. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- 7. Margin value = Emission level Limit value.

2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

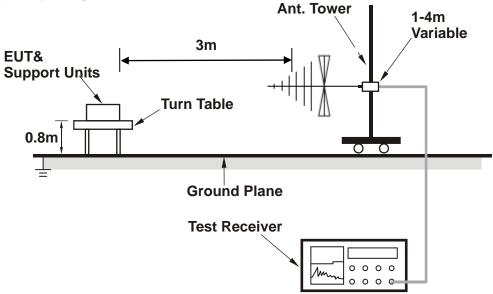
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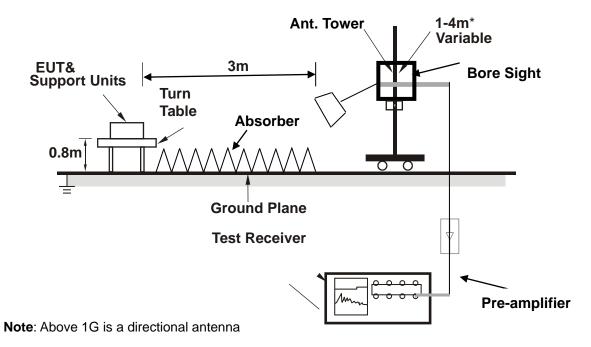


2.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



depends on the EUT height and the antenna 3dB bandwidth both, refer to section 7.3 of CISPR 16-2-3.

2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.

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2.2.7 TEST RESULTS

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TEST VOLTAGE	DC 12V	FREQUENCY RANGE	30-1000 MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 60 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz		
TESTED BY	Jace Hu				

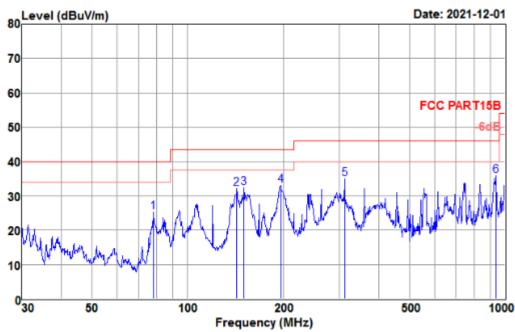
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB		Limit level dBuV/m	Over limit dB	Remark
78. 139	46. 55	9. 74	1. 45	32. 54	25. 20	40.00	-14. 80	Peak
142. 824	48. 84	13. 82	2. 03	32. 54	32. 15	43.50	-11. 35	Peak
150. 538	48. 58	14. 27	2. 10	32. 55	32. 40	43.50	-11. 10	Peak
196. 510	52. 87	10. 37	2. 41	32. 60	33. 05	43.50	-10. 45	Peak
312. 179	51. 15	13. 30	3. 10	32. 61	34. 94	46.00	-11. 06	Peak
938.833	39. 18	22. 41	5. 76	31. 46	35.89	46.00	-10.11	

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)

- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)- Amplifier Gain
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.





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TEST VOLTAGE	DC 12V	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60% RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Jack		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
31. 510 94. 428 124. 569 187. 096 562. 662	46. 33 55. 77 52. 92 52. 97 49. 66	13. 86 8. 76 11. 86 11. 36 17. 84	0. 95 1. 61 1. 90 2. 36 4. 25	32. 60 32. 51 32. 52 32. 59 32. 74	28. 54 33. 63 34. 16 34. 10 39. 01	40.00 43.50 43.50 43.50 46.00	-11. 46 -9. 87 -9. 34 -9. 40 -6. 99	Peak Peak Peak Peak Peak

REMARKS:

887.610

42.95

1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)

31.84

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Amplifier Gain

38.35

46.00

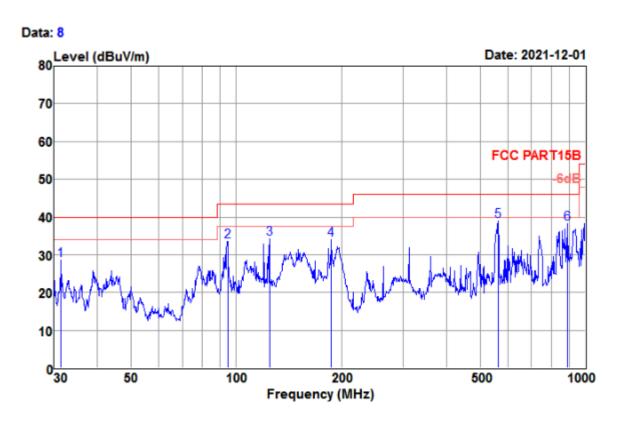
-7.65

3. The other emission levels were very low against the limit.

5.65

4. Margin value = Emission level – Limit value.

21.59



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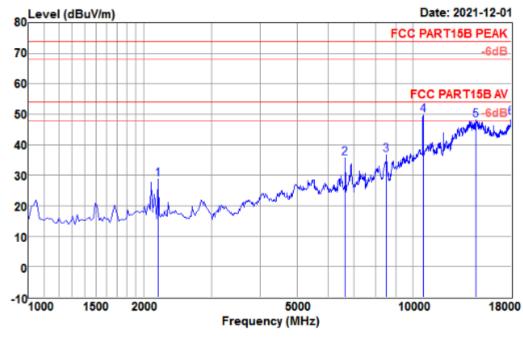


TEST VOLTAGE	DC 12V	FREQUENCY RANGE	1-18 GHz	
ENVIRONMENTAL CONDITIONS		DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz	
TESTED BY	Jack			

Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB		Limit level dBuV/m	Over limit dB	Remark
2173.000 6661.000 8514.000 10605.000 14566.000 17983.000	33. 19 28. 22 24. 61 29. 96 19. 81 16. 34	39. 51 40. 53 46. 92		35. 33 34. 27 34. 48 33. 51 31. 90 30. 21	28. 85 35. 75 36. 65 49. 69 48. 03 48. 87		-38. 25 -37. 35 -24. 31 -25. 97 -25. 13	Peak Peak Peak Peak
Note: There is no emission above 18GHz, so does not reported.								

- REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 - 2. Negative sign (-) in the margin column signify levels below the limit.
 - 3. Frequency range scanned: 1GHz to 18GHz.
 - 4. Only emissions significantly above equipment noise floor are reported.





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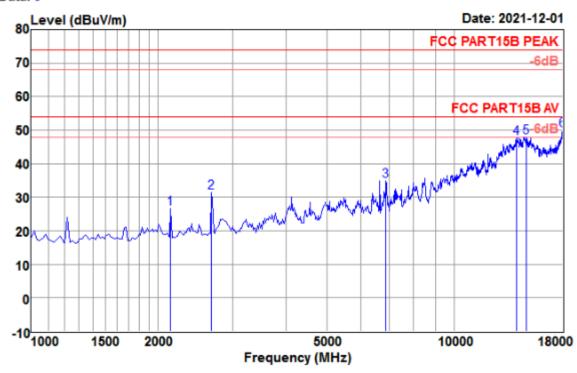
TEST VOLTAGE	DC 12V	FREQUENCY RANGE	1-18 GHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 60 %RH	Peak/Average, 1 MHz		
TESTED BY	Jack			

Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level	Limit level dBuV/m	Over limit dB	Remark
2139. 000 2666. 000 6882. 000 13988. 000 14753. 000 18000. 000	31. 02 35. 83 26. 42 18. 98 19. 57 17. 38	40.35	3. 84 4. 28 7. 95 20. 47 19. 87 15. 80	35. 25 36. 57 34. 22 31. 89 31. 90 30. 20	26. 62 31. 47 34. 84 47. 65 47. 89 50. 08	74. 00 74. 00 74. 00 74. 00 74. 00 74. 00	-47. 38 -42. 53 -39. 16 -26. 35 -26. 11 -23. 92	Peak Peak Peak

Note: There is no emission above 18GHz, so does not reported.

- **REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 - 2. Negative sign (-) in the margin column signify levels below the limit.
 - 3. Frequency range scanned: 1GHz to 18GHz.
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3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---

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