TEST REPORT



CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970

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Report No.: CTK-2018-02951 Page (1) / (21) Pages

1. Client

• Name : SOLUM CO.,LTD.

 Address: 4,5,6th F, 357, Guseong-ro, Giheung-gu, Gyeonggi-do, Yongin-si, Republic of Korea

Date of Receipt: 2018-08-15

2. Manufacturer

• Name #1 : SOLUM CO.,LTD.

 Address #1: 4,5,6th F, 357, Guseong-ro, Giheung-gu, Gyeonggi-do, Yongin-si, Republic of Korea

• Name #2: SOLUM VINA CO., LTD

Address #2: Plot B3, Ba Thien 2 Industrial park, Thien Ke Ward, Binh Xuyen District,
 Vinh Phuc Province, 281200., Peple's Republic of Vietnam

3. Use of Report: For FCC Certification

4. Test Sample / Model : Electronic Shelf Label / EL016D2

5. Date of Test: 2018-09-03 to 2018-09-07

6. Test Standard (method) used: FCC 47 CFR part 15 subpart C 15.249

7. Testing Environment: Temp.: $(24 \pm 1) \, ^{\circ}$, Humidity: $(51 \pm 5) \, ^{\circ}$ R.H.

8. Test Results: Compliance

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

	Tested by	Technical Manager
Affirmation	Bong-seok Kim: (Signature)	Young-taek Lee: (Signature)

2018-09-14

Republic of KOREA CTK Co., Ltd.



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Report No.: CTK-2018-02951 Page (2) / (21) Pages

REPORT REVISION HISTORY

Date Revision		Page No
2018-09-14	Issued (CTK-2018-02951)	all

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Report No.: CTK-2018-02951 Page (3) / (21) Pages

CONTENTS

1. General Product Description4
1.1 Client Information4
1.2 Product Information4
1.3 Peripheral Devices4
2. Facility and Accreditations5
2.1 Test Facility5
2.2 Laboratory Accreditations and Listings5
2.3 Calibration Details of Equipment Used for Measurement5
3. Test Specifications6
3.1 Standards6
3.2 Mode of operation during the test7
3.3 Maximum Measurement Uncertainty8
4. Technical Characteristic Test9
4.1 Band Edge9
4.2 Field strength
APPENDIX A – Test Equipment Used For Tests
APPENDIX B – EUT Photographs



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Report No.: CTK-2018-02951 Page (4) / (21) Pages

1. General Product Description

1.1 Client Information

Company	SOLUM CO.,LTD.
Contact Point	4,5,6th F, 357, Guseong-ro, Giheung-gu, Gyeonggi-do, Yongin-si, Republic of Korea
	Name : Tae-ha Lee
Contact Person	E-mail: taeha.lee@solu-m.com
	Tel: +82-31-8006-0960

1.2 Product Information

FCC ID	2AFWN-EL016D2			
Product Description	Electronic Shelf Label			
Model name	EL016D2			
Variant Model name	EL016D2WRC/NUS, EL016D2WRC/EEU, EL016D2WRC/KKR (EL016D2 and EL016D2WRC/NUS, EL016D2WRC/EEU, EL016D2WRC/KKR are no technical difference from each model only except for model name because of marketing purposes.)			
Operating Frequency	902.4 MHz, 915.2 MHz, 927.6 MHz			
RF Output Power	Below 94 dBuV/m @ 3 m			
Antenna type	PCB antenna			
Antenna gain	0.6 dBi			
Channel Spacing	0.4 MHz			
Number of channels	64			
Type of Modulation	2FSK			
Power Source	DC 3 V(CR2450 Battery * 1 EA)			

1.3 Peripheral Devices

-For Conducted Measurement and Radiated Measurement

Device	Manufacturer	Model No.	Serial No.
Notebook	НР	15-bs563TU	CND72 53QRM
AC Adapter	НР	HSTNN-LA40	7625207801



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Report No.: CTK-2018-02951 Page (5) / (21) Pages

2. Facility and Accreditations

2.1 Test Facility

The measurement facility is located at (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yong-in-si, Gyeonggi-do, Korea.

2.2 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Registration Number	Logo		
USA	FCC	FCC Part 15 & 18 EMI (Electromagnetic Interference / Emission)	805871	P		
CANADA	ADA ISED IC EMI (3/10m test site) 8737A-2		*			
JAPAN	VCCI	VCCI V-3 C-9 EMI (Electromagnetic Interference / Emission) R-3 G-3				
KOREA	MSIP EMI (Electromagnetic Interference / Emission) EMS (Electromagnetic Susceptibility / Immunity) KR0025		KR0025			

2.3 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.



Report No.: CTK-2018-02951 Page (6) / (21) Pages

3. Test Specifications

3.1 Standards

FCC Part Section(s)	Requirement(s)	Status (Note 1)		
15.249(a)	Field Strength of emissions from intentional radiators	С		
15.249(d)	Emissions radiated outside of the specified frequency bands	С		
15.209	Radiated Emissions	С		
15.207	15.207 AC Conducted Emission			
Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
Note 2: The data in this test report are traceable to the national or international standards.				
Note 3: The sample was tested according to the following specification: FCC Part 15.249, ANSI C63.10-2013.				
Note 4: The equipment is operated on battery power only.				

R107 Rev.0 CTK-D151-06



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Report No.: CTK-2018-02951 Page (7) / (21) Pages

3.2 Mode of operation during the test

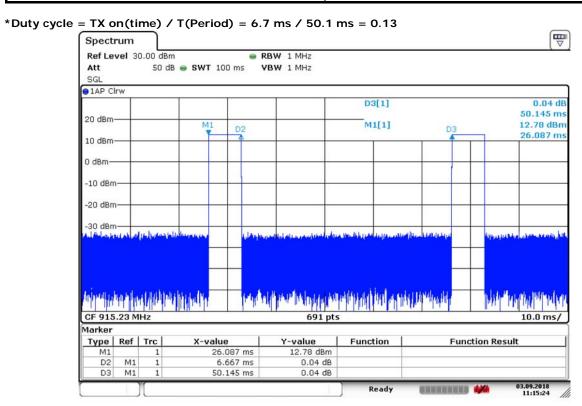
The EUT is operated in a manner representative of the typical of the equipments. During at testing, system components were manipulated within the confines of typical usage to maximize each emission. All modulation modes were tests. The results are only attached worst cases.

Test Frequency

Lowest channel	Middle channel	Highest channel			
902.4 MHz	915.2 MHz	927.6 MHz			

Test mode

TX mode	Duty cycle*
Continuous	0.13 (13%)



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Report No.: CTK-2018-02951 Page (8) / (21) Pages

3.3 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter. Coverage factor k = 2, Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	1.5 dB
Unwanted Emission(conducted)	3.0 dB
Radiated Emissions ($f \le 1 \text{ GHz}$)	4.0 dB
Radiated Emissions (f > 1 GHz)	5.0 dB



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Report No.: CTK-2018-02951 Page (9) / (21) Pages

4. Technical Characteristic Test

4.1 Band Edge

Requirement

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test Procedures (ANSI C63.10-2013 6.10)

- a) Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described in step e) (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).
- b) Set the EUT to the lowest frequency channel (for the hopping on test, the hopping sequence shall include the lowest frequency channel).
- c) Set the EUT to operate at maximum output power and 100% duty cycle, or equivalent "normal mode of operation".
- d) Perform the test as follows:
 - 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

2) RBW: 100 kHz 3) VBW: 300 kHz

4) Detector : Peak 5) Sweep time = Coupled

6) Trace: Max hold

7) Attenuation: Auto(at least 10 dB preferred)

8) Allow trace to fully stabilize

- e) Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.
- f) Set the EUT to the highest frequency channel (for the hopping on test, the hopping sequence shall include the highest frequency channel) and repeat step c) through step d).
- g) The band-edge measurement shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Test results: Complies

See next pages for actual measured spectrum plots.

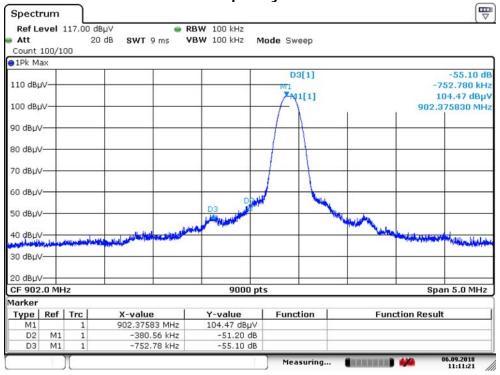


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Report No.: CTK-2018-02951 Page (10) / (21) Pages

Band-edge Test Frequency : Lowest



Test Frequency: Highest Spectrum Ref Level 117.00 dBµV RBW 100 kHz Att 20 dB SWT 9 ms **VBW** 100 kHz Mode Sweep Count 100/100 ●1Pk Max D3[1] 55.04 dB 110 dBµV-747.780 kHz M1[1] 103.50 dBµV 100 dBuV-927,626940 MHz 90 dBµV-80 dBµV-70 dBµV-60 dBµV 50 dBµV-40 dBµV 30 dBµV-20 dBµV-9000 pts CF 928.0 MHz Span 5.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 927.62694 MHz 103.50 dBµ∨ D2 380,56 kHz -50.03 dB D3 M1 1 747.78 kHz -55.04 dB (HILLIAN) ## Measuring...



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Report No.: CTK-2018-02951 Page (11) / (21) Pages

4.2 Field strength

Test Location

\boxtimes	10 m SAC (test distance	e :		10	m,	\boxtimes	3	m)
\boxtimes	3 m SAC (test distance	: :	3 m)				

Test Procedures

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency rage above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = $9 \text{ kHz} \sim 12.75 \text{ GHz} (10^{\text{th}} \text{ harmonic})$

- a) RBW = 1 MHz for $f \ge 1$ GHz, 120 kHz for f < 1 GHz, 9 kHz for f < 30 MHz
- b) VBW ≥ RBW
- c) Sweep time = auto couple



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Report No.: CTK-2018-02951 Page (12) / (21) Pages

Requirement:

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental	Field strength of harmonics		
902-928 MHz	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)		

Field strength limits are specified at a distance of 3 meters.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the <u>general radiated</u> <u>emission limits in §15.209</u>, whichever is the lesser attenuation.

FCC Part 15 § 15.209 (a) 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(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

^{**} Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note

- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)
- 3) Average value = Peak value + Duty cycle correction factor(For pulse timing characteristics such as fundamental and harmonic emissions)



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Report No.: CTK-2018-02951 Page (13) / (21) Pages

FCC Part 15 § 15.205 (a) 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	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
¹ 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475- 156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	² Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

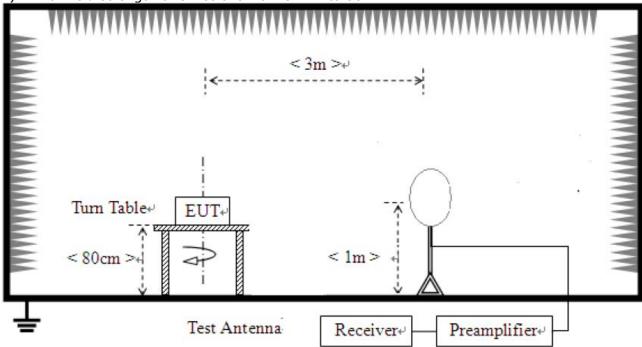


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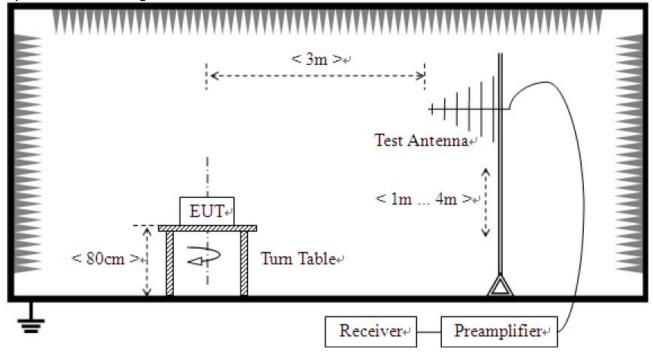
Report No.: CTK-2018-02951 Page (14) / (21) Pages

Test Setup:

For field strength of emissions from 9 kHz to 30 MHz



For field strength of emissions from 30 MHz to 1 GHz

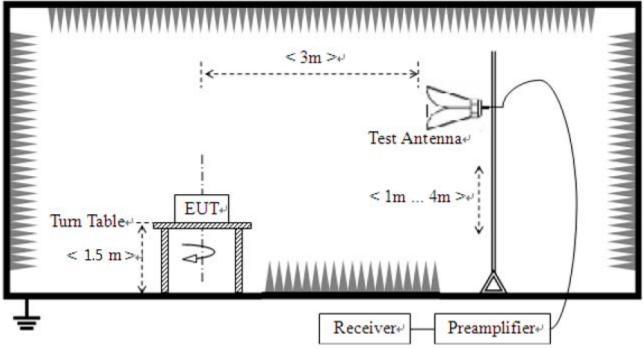




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Report No.: CTK-2018-02951 Page (15) / (21) Pages

3) For field strength of emissions above 1 GHz



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Report No.: CTK-2018-02951 Page (16) / (21) Pages

Test Data:

1) Field strength of fundamental

The requirements are:

Test mode: Transmit

Frequency [MHz]	Ant. Pol. (V/H)	Reading* [dBuV/m]	C.F [dB/m]	Duty Cycle c.f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
902.4	V	104.40	-4.00	-17.72	82.68	94.00	11.32	
915.2	V	103.00	-3.90	-17.72	81.38	94.00	12.62	
927.6	V	103.70	-3.70	-17.72	82.28	94.00	11.72	

- 1. Result = Reading + c.f(correction factor) + Duty cycle c.f
- 2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator Amp Gain
- 3. Duty cycle c.f = $20\log(\text{Duty cycle}) = 20\log(0.13) = -17.72 \text{ dB}$
- 4. The Unwanted emission was measured in the following position: EUT stand-up position(X, Y axis), lie-down position(Z axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.

^{*} Reading data is the peak value.



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Report No.: CTK-2018-02951 Page (17) / (21) Pages

2) Field strength of outside of the specified frequency bands - 9 kHz to 30 MHz

The requirements are:

Frequency	Measured Data	Margin	Remark	
(MHz)	(dBuV/m)	(dB)		
-	-	-	See note	

Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB)



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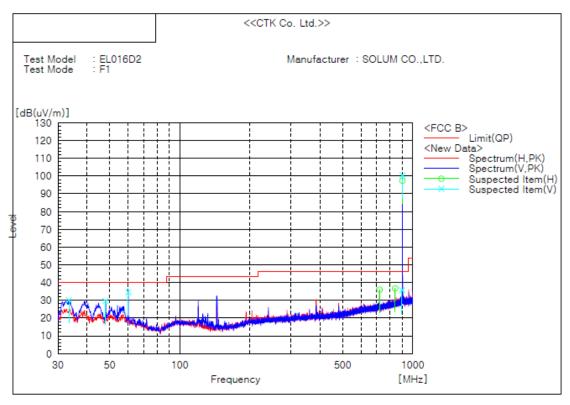
Report No.: CTK-2018-02951 Page (18) / (21) Pages

3) Field strength of outside of the specified frequency bands - 30MHz to 1GHz

Test mode: Transmit, low channel (Worst case)

The requirements are:

Test Frequency: Lowest



Spectrum Selection

 No.	Horizontal Frequency		on c.f	Result PK	Limit QP	Margin QP	Remark
1	[MHz] 720.112	[dB(uV)] 42.6	-6.6	[dB(uV/m)] 36.0	[dB(uV/m)] 46.0	[dB] 10.0	
3	840.084 902.465	41.6 101.3	-4.8 -4.0	36.8 97.3	46.0 46.0	9.2 -51.3	
	Vertical Po	olarization					
No.	Frequency	Reading	c.f	Result PK	Limit QP	Margin QP	Remark
	[MHz]	[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	
1	33.375	45.2	-15.1	30.1	40.0	9.9	
2	47.963	42.0	-12.4	29.6	40.0	10.4	
3	60.047	48.5	-13.9	34.6	40.0	5.4	
	000 407			05.7	40.0	40.0	
4 5	898.437	39.7	-4.0	35.7	46.0	10.3	

Remark

- Result = Reading + c.f(Correction factor)
- 2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator Amp Gain
- 3. This data is the peak(PK) value.
- 4. No.3(Horizontal Polarization) and No.5(Vertical Polarization) are the carrier frequencies.
- 5. The Unwanted emission was measured in the following position: EUT stand-up position(X, Y axis), lie-down position(Z axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.



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Report No.: CTK-2018-02951 Page (19) / (21) Pages

4) Field strength of outside of the specified frequency bands - 1 GHz to 12.75 GHz

The requirements are:

Test mode: Transmit

Test Frequency: Lowest (902.4 MHz)

Frequency [MHz]	Ant. Pol. (V/H)	Reading* [dBuV/m]	c.f [dB/m]	Duty cycle c.f[dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1805.059	Н	55.60	-4.44	-17.72	33.44	54.00	20.56	Harmonic
1805.059	V	52.80	-4.44	-17.72	30.64	54.00	23.36	Harmonic
5414.190	Н	58.30	2.90	-17.72	43.48	54.00	10.52	Harmonic
5414.190	V	62.00	2.90	-17.72	47.18	54.00	6.82	Harmonic
6317.231	Н	48.00	6.10	-17.72	36.38	54.00	17.62	Harmonic
6317.231	V	45.10	6.10	-17.72	33.48	54.00	20.52	Harmonic

Test Frequency: Middle(915.2 MHz)

Frequency [MHz]	Ant. Pol. (V/H)	Reading* [dBuV/m]	c.f [dB/m]	Duty cycle c.f[dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1830.312	Н	56.80	-4.30	-17.72	34.78	54.00	19.22	Harmonic
1830.312	V	54.50	-4.30	-17.72	32.48	54.00	21.52	Harmonic
2745.474	Н	56.50	-3.50	-17.72	35.28	54.00	18.72	Harmonic
2745.474	V	60.90	-3.50	-17.72	39.68	54.00	14.32	Harmonic
3660.636	Н	43.10	-0.20	-17.72	25.18	54.00	28.82	Harmonic
3660.636	V	44.00	-0.20	-17.72	26.08	54.00	27.92	Harmonic
5490.959	Н	44.60	5.90	-17.72	32.78	54.00	21.22	Harmonic
5490.959	٧	43.10	5.90	-17.72	31.28	54.00	22.72	Harmonic

Test Frequency: Highest(927.6 MHz)

Frequency [MHz]	Ant. Pol. (V/H)	Reading* [dBuV/m]	c.f [dB/m]	Duty cycle c.f[dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1854.555	Н	58.10	-4.20	-17.72	36.18	54.00	17.82	Harmonic
1854.555	V	56.00	-4.20	-17.72	34.08	54.00	19.92	Harmonic
5565.708	Н	52.40	3.80	-17.72	38.48	54.00	15.52	Harmonic
5565.708	V	44.30	3.80	-17.72	30.38	54.00	23.62	Harmonic

Remarks

- 1. Result = Reading + c.f(correction factor) + Duty cycle c.f
- 2. Correction factor = Antenna factor + Cable loss Amp Gain
- 3. Duty cycle c.f = $20\log(\text{Duty cycle}) = 20\log(0.13) = -17.72 \text{ dB}$
- 4. The Unwanted emission was measured in the following position: EUT stand-up position(X, Y axis), lie-down position(Z axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.

^{*} Reading data is the peak value.



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Report No.: CTK-2018-02951 Page (20) / (21) Pages

APPENDIX A – Test Equipment Used For Tests

No.	Name of Equipment	Manufactur er	Model No.	Serial No.	Date of Calibration	Due Date
1	Spectrum Analyzer	R&S	FSV30	100925	2018-01-26	2019-01-26
2	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-126	2018-05-27	2020-05-27
3	Bilog Antenna	Schaffner	CBL6111C	2551	2017-04-19	2019-04-19
4	AMPLIFIER	SONOMA	310	291721	2018-02-02	2019-02-02
5	6dB Attenuator	R&S	DNF	272.4110.50-2	2017-10-25	2018-10-25
6	6dB Attenuator	R&S	DNF	272.4110.50-1	2018-03-09	2019-03-09
7	EMI Test Receiver	Rohde & Schwarz	ESCI7	100814	2017-10-25	2018-10-25
8	EMI Test Receiver	Rohde & Schwarz	ESU40	100336	2018-02-01	2019-02-01
9	Horn Antenna	ETS-Lindgren	3117	00154525	2017-02-17	2019-02-17
10	Preamplifier	Agilent	8449B	3008A02011	2017-11-30	2018-11-30
11	RF Cable (Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2018-02-02	2019-02-02
12	RF Cable (Radiated)	HUBER+SUHNER	SUCOFLEX 104	N/A (below 1GHz)	2018-02-02	2019-02-02
13	RF Cable (Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27573/4	2017-11-30	2018-11-30
14	RF Cable (Radiated)	HUBER+SUHNER	SUCOFLEX 106	N/A (above 1GHz)	2017-11-30	2018-11-30

R107 Rev.0 CTK-D151-06



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Report No.: CTK-2018-02951 Page (21) / (21) Pages

APPENDIX B – EUT Photographs





R107 Rev.0 CTK-D151-06