

Test Report					
1. Client					
 Name : Address : 	Apulse Technology Co.,Ltd A-1403, 60, Haan-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea				
2. Use of Report	: FCC Approval				
3. Sample Descr	iption				
Product Name Model Name					
4. Date of Receip	pt: 2023-10-05				
5. Date of Test :	2023-10-26 ~ 2023-10-30				
6. Test Method :	FCC Part 15 Subpart C 15.247				
7. Test Results :	Refer to the test results				
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Affirmation	Tested by Technical Manager				
	Jong-Myoung, Shin Kyung-Taek, Lee				
	Nov 24, 2023				
EMC Labs Co., Ltd.					

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<u>Version</u>

TEST REPORT NO.	DATE	DESCRIPTION	
KR0140-RF2311-004	Nov 24, 2023	Initial Issue	

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1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant Information

Applicant	Apulse Technology Co.,Ltd
Applicant Address	A-1403, 60, Haan-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea
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1.2. Manufacturer Information

Manufacturer	Apulse Technology Co.,Ltd
Manufacturer Address	A-1403, 60, Haan-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea

1.3 Test Laboratory Information

Laboratory	EMC Labs Co., Ltd.
Laboratory Address	100, Jangjateo-ro, Hobeop-myeon, Icheon-si, Gyeonggi-do, Republic of
	Korea
Contact Person	Jong-Myoung, Shin
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FCC Designation No.	KR0140
FCC Registration No.	580000
IC Site Registration No.	28751



2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	RFID READER
Model Name	RFID Mini
FCC ID	2AWMDMINI
Rated Voltage	DC 5.0 V

2.2 Additional Information

Operating Frequency	902.75 MHz ~ 927.25 MHz	
Number of channel	50	
Modulation Type	A1D	
Antenna Type	Patch Antenna	
Antenna Gain	0.88 dBi	
Firmware Version	1.0	
Hardware Version	1.0	
Test software	DemoModuleWinForm_v1.09.00	

2.3 Test Frequency

Test mode	Test Frequency (MHz)		
	Low Frequency	Middle Frequency	High Frequency
RFID (900 MHz FHSS)	902.75	914.75	927.25

2.4 Used Test Software Setting Value

Test Mode	Setting Item	
Test Mode	Power	
RFID (900 MHz FHSS)	20	

2.5 Mode of operation during the test

- The EUT continuous transmission mode during the test with set at Low Channel, Middle Channel, and High Channel. To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, YZ, XZ planes.

2.6 Modifications of EUT

- None

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3. Test Summary

Applied	FCC Rule	IC Rule	Test Items	Test Condition	Result
\square	15.203	-	Antenna Requirement		С
\square	15.247(a)	-	20 dB Bandwidth		С
\square	_	RSS GEN (6.7)	Occupied Bandwidth (99%)		С
	15.247(a)	RSS-247 (5.1)	Number of Hopping Frequencies	Conducted	С
	15.247(a)	RSS-247 (5.1)	Time of Occupancy (Dwell Time)	Conducted	С
\square	15.247(a)	RSS-247 (5.1)	Carrier Frequencies Separation		С
\square	15.247(b)	RSS-247 (5.4)	Peak Output Power		С
	15.247(d)	RSS-247 (5.5)	Conducted Spurious Emission		С
	15.247(d) 15.205 & 15.209	RSS-247 (5.5) RSS-GEN (8.9 & 8.10)	Radiated Spurious Emission	Radiated	С
	15.207	RSS-GEN (8.8)		AC Line Conducted	С

<u>Note 1</u>: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

The sample was tested according to the following specification: ANSI C63.10:2013.

Compliance was determined by specification limits of the applicable standard according to customer requirements.



4. Used equipment on test

Description	Manufacturer	Model Name	Serial Name	Next Cal.
TEMP & HUMID CHAMBER	JFM	JFMA-001	20200929-01	2023.12.15
CONTROLLER	AMWON TECHNOLOGY	TEMI2500	S7800VK191 0707	2023.12.15
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	MY45304057	2023.12.15
MXG ANALOG SIGNAL GENERATOR	AGILENT	N5183A	MY50141890	2023.12.14
SYSTEM DC POWER SUPPLY	AGILENT	6674A	MY53000118	2023.12.14
VECTOR SIGNAL GENERATOR	ROHDE & SCHWARZ	SMBV100A	257524	2023.12.14
BLUETOOTH TESTER	TESCOM	TC-3000A	3000A480088	2023.12.14
DIRECTIONAL COUPLER	AGILENT	773D	2839A01855	2023.12.14
ATTENUATOR	AGILENT	8493C	73193	2023.12.14
TERMINATIOM	HEWLETT PACKARD	909D	07492	2023.12.14
POWER DIVIDER	HEWLETT PACKARD	11636A	06916	2023.12.14
SLIDE-AC	DAEKWANG TECH	SV-1023	NONE	2024.11.10
DIGITAL MULTIMETER	HUMANTECHSTORE	15B+	50561541WS	2023.12.14
ATTENUATOR	ACE RF COMM	ATT SMA 20W 20dB 8GHz	A-0820.SM20.2	2024.04.04
DC POWER SUPPLY	AGILENT	E3634A	MY40012120	2024.02.23
USB Peak Power Sensor	Anritsu	MA24408A	12321	2024.11.09
High Pass Filter	WT Microwave INC.	WT-A3314-HS	WT22111804-1	2023.12.14
High Pass Filter	WT Microwave INC.	WT-A1935-HS	WT22111804-2	2023.12.14
SPECTRUM ANALYZER	ROHDE & SCHWARZ	FSU26	200444	2024.02.22
ACTIVE LOOP ANTENNA	TESEQ	HLA 6121	55685	2024.12.22
Biconilog ANT	Schwarzbeck	VULB 9160	3260	2025.01.09
Biconilog ANT	Schwarzbeck	VULB9168	902	2024.11.30
Horn ANT	Schwarzbeck	BBHA9120D	974	2023.11.29
Horn ANT	Schwarzbeck	BBHA9120D	1497	2024.01.09
Amplifier	TESTEK	TK-PA18H	200104-L	2024.03.14
Horn ANT	Schwarzbeck	BBHA9170	01188	2024.03.16
Horn ANT	Schwarzbeck	BBHA9170	01189	2024.03.16
AMPLIFIER	TESTEK	TK-PA1840H	220105-L	2024.03.14
EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW44	101952	2024.03.14
Test Receiver	ROHDE & SCHWARZ	ESR7	101616	2024.06.27
LISN	ROHDE & SCHWARZ	ENV216	100409	2024.01.09
PULSE LIMITER	lignex1	EPL-30	NONE	2024.01.09

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5. Antenna Requirement

According to §15.203 An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

According to §15.247(b)(4) e conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.1 Result

Complies

(The transmitter has a Patch Antenna. The directional peak gain of the antenna is 0.88 dBi.)



6. 20 dB Bandwidth & Occupied Bandwidth (99%)

6.1 Test Setup

Refer to the APPENDIX I.

6.2 Limit

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

6.3 Test Procedure

- 1. The 20 dB bandwidth & Occupied bandwidth were measured with a spectrum analyzer connected to RF antenna Connector (conducted measurement) while EUT was operating in transmit mode. The analyzer center frequency was set to the EUT carrier frequency, using the analyzer.
- 2. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using below setting:
 RBW = 1% to 5% of the 20 dB Bandwidth & Occupied Bandwidth
 VBW ≥ 3 × RBW
 Span = between two times and five times the 20 dB Bandwidth & Occupied Bandwidth
 Sweep = Auto
 Detector function = Peak
 Trace = Max Hold

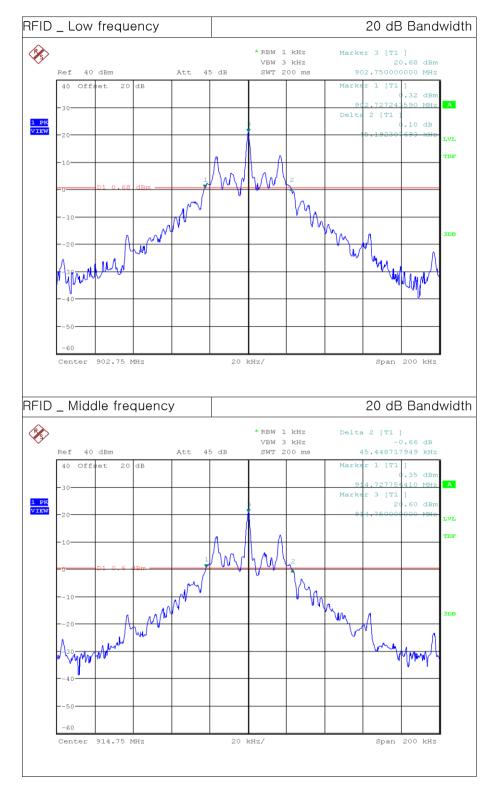
6.4 Test Result

Test Mode	Test Frequency	20 dB Bandwidth (kHz)	Occupied Bandwidth (kHz)
	Low	45.192	59.000
RFID	Middle	45.449	58.600
	High	46.090	60.200

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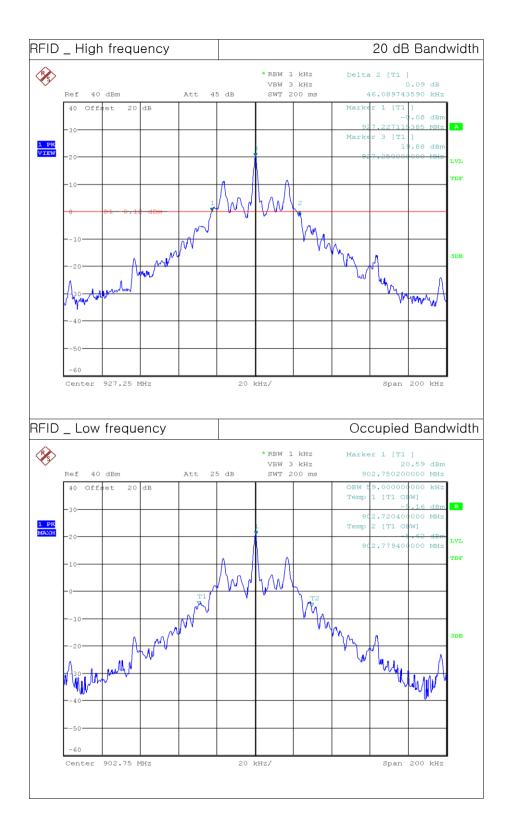


6.5 Test Plot

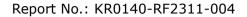


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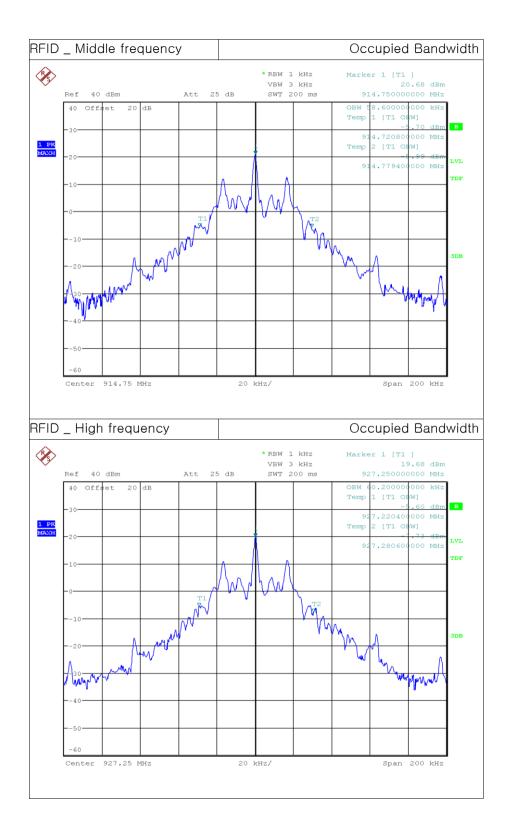




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7. Number of Hopping Frequencies

7.1 Test Setup

Refer to the APPENDIX I.

7.2 Limit

Limit : >= 50 hops

7.3 Test Procedure

The number of hopping frequencies was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

To get higher resolution, two frequency ranges for FH mode within the 902 \sim 928 MHz were examined.

The spectrum analyzer is set to:

 Span = 30 MHz

 RBW = To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

 VBW ≥ RBW
 Sweep = Auto

 Detector = Peak
 Trace = Max hold

7.4 Test Result

Test Mode	Number of Hopping Channels
RFID	50



7.5 Test Plot





8. Time of Occupancy (Dwell Time)

8.1 Test Setup

Refer to the APPENDIX I.

8.2 Limit

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

8.3 Test Procedure

The dwell time was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

The spectrum analyzer is set to:

Center frequency = 921.9 MHz Span = Zero RBW = 100 kHz (RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel) VBW ≥ RBW Detector = Peak Trace = Max hold

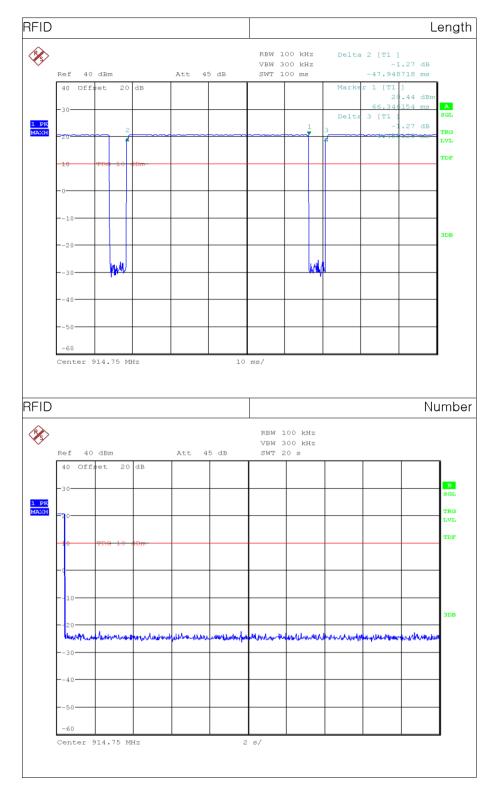
8.4 Test Result

Test Frequency	Length	Number	Dwell Time
(MHz)	(ms)		(ms)
921.9	47.95	1	47.95

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8.5 Test Plot



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9. Carrier Frequencies Separation

9.1 Test Setup

Refer to the APPENDIX I.

9.2 Limit

Limit : \geq 25 kHz or \geq 20 dB Bandwidth whichever is greater.

9.3 Test Procedure

The carrier frequency separation was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

After the trace being stable, the reading value between the peaks of the adjacent channels using the marker delta function was recorded as the measurement results.

The spectrum analyzer is set to:

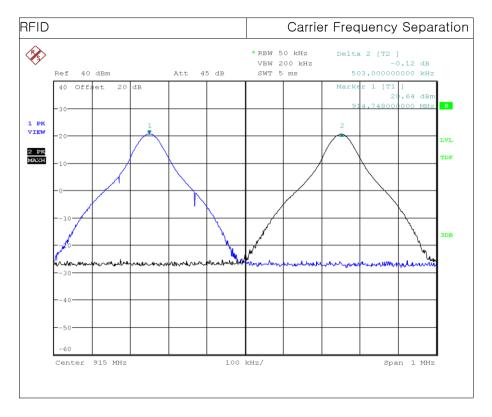
9.4 Test Result

Test Mode	Carrier Frequencies Separation (kHz)	Min. Limit (kHz)
RFID	503.000	58.60

Note: Limit (kHz) = Test Result of 20 dB BW



9.5 Test Plot



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10. Peak Output Power

10.1 Test Setup

Refer to the APPENDIX I.

10.2 Limit

The maximum peak output power of the intentional radiator shall not exceed the following:

\$15.247(b)(2) and RSS-247(5.4) (a), For frequency hopping systems operating in the 902-928 MHz band:

1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) and 5.4(a) of this section.

10.3 Test Procedure

- 1. The RF output power was measured with a spectrum analyzer connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency, a spectrum analyzer was used to record the shape of the transmit signal.
- 2. The peak output power of the fundamental frequency was measured with the spectrum analyzer using;

Span = approximately 5 times of the 20 dB bandwidth, centered on a hopping channel RBW \geq 20 dB Bandwidth

 $VBW \ge RBW$ Sweep = Auto Detector function = Peak Trace = Max Hold



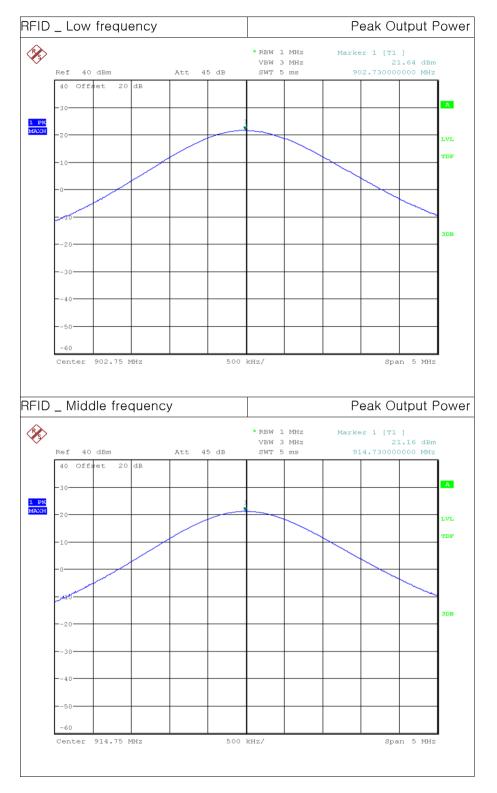
10.4 Test Result

Test Mede	Test Frequency	Peak Out	out Power
Test Mode	Test Frequency	dBm	mW
	Low	21.64	145.88
RFID	Middle	21.16	130.62
	High	20.85	121.62

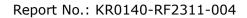
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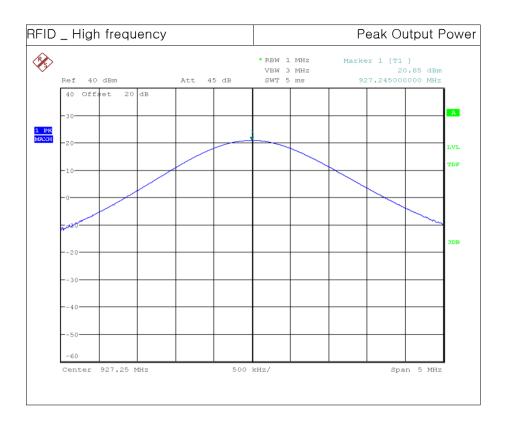
10.5 Test Plot



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11. TX Radiated Spurious Emission and Conducted Spurious Emission

11.1 Test Setup

Refer to the APPENDIX I.

11.2 Limit

According to §15.247(d), 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 section §15.209(a) is not required. In addition, radiated emission which in the restricted band, as define in section §15.205(a), must also comply the radiated emission limits specified in section §15.209(a) (see section §15.205(c))

According to § 15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional

	ela strength levels specifica in	the following table
Frequency (MHz)	Limit (uV/m)	Measurement Distance (meter)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1705	24000/F (kHz)	30
1705 ~ 30.0	30	30
30 ~ 88	100 **	3
88 ~ 216	150 **	3
216 ~ 960	200 **	3
Above 960	500	3

radiator shall not exceed the field strength levels specified in the following table

** 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 - 72 MHz, 76 - 88 MHz, 174 - 216 MHz or 470 - 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

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MHz	MHz	GHz
16.42 ~ 16.423	399.90 ~ 410	4.5 ~ 5.15
16.69475 ~ 16.69525	608 ~ 614	5.35 ~ 5.46
16.80425 ~ 16.80475	960 ~ 1240	7.25 ~ 7.75
25.5 ~ 25.67	1300 ~ 1427	8.025 ~ 8.5
37.5 ~ 38.	1435 ~ 1626.5	9.0 ~ 9.2
25 73 ~ 74.6	1645.5 ~ 1646.5	9.3 ~ 9.5
74.8 ~ 75.2	1660 ~ 1710	10.6 ~ 12.7
108 ~ 121.94	1718.8 ~ 1722.2	13.25 ~ 13.4
149.9 ~ 150.05	2200 ~ 2300	14.47 ~ 14.5
156.52475 ~ 156.52525	2310 ~ 2390	15.35 ~ 16.2
156.7 ~ 156.9	2483.5 ~ 2500	17.7 ~ 21.4
162.0125 ~ 167.17	2690 ~ 2900	22.01 ~ 23.12
3345.8 ~ 3358	3260 ~ 3267	23.6 ~ 24.0
3600 ~ 4400	3332 ~ 3339	31.2 ~ 31.8
3345.8 ~ 3358	240 ~ 285	36.43 ~ 36.5
3600 ~ 4400	322 ~ 335.4	Above 38.6
	$\begin{array}{c} 16.42 \sim 16.423 \\ 16.69475 \sim 16.69525 \\ 16.80425 \sim 16.80475 \\ 25.5 \sim 25.67 \\ 37.5 \sim 38. \\ 25.73 \sim 74.6 \\ 74.8 \sim 75.2 \\ 108 \sim 121.94 \\ 149.9 \sim 150.05 \\ 156.52475 \sim 156.52525 \\ 156.7 \sim 156.9 \\ 162.0125 \sim 167.17 \\ 3345.8 \sim 3358 \\ 3600 \sim 4400 \\ 3345.8 \sim 3358 \end{array}$	$16.42 \sim 16.423$ $399.90 \sim 410$ $16.69475 \sim 16.69525$ $608 \sim 614$ $16.80425 \sim 16.80475$ $960 \sim 1240$ $25.5 \sim 25.67$ $1300 \sim 1427$ $37.5 \sim 38.$ $1435 \sim 1626.5$ $25.73 \sim 74.6$ $1645.5 \sim 1646.5$ $74.8 \sim 75.2$ $1660 \sim 1710$ $108 \sim 121.94$ $1718.8 \sim 1722.2$ $149.9 \sim 150.05$ $2200 \sim 2300$ $156.52475 \sim 156.52525$ $2310 \sim 2390$ $156.7 \sim 156.9$ $2483.5 \sim 2500$ $162.0125 \sim 167.17$ $2690 \sim 3267$ $3600 \sim 4400$ $3332 \sim 3339$ $3345.8 \sim 3358$ $240 \sim 285$

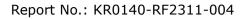
According to § 15.205(a) and (b), only spurious emissions are permitted in any of The frequency bands listed below:

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



11.3 Test Procedure for Radiated Spurious Emission

- 1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The table was rotated 360 degrees to determine the position of the highest radiation.
- During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3.75 meter away from the interference-receiving antenna.
- 3. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.
- 4. The antenna is a broadband antenna, and its height 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.
- 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 table was turned from 0 degrees to 360 degrees to find the maximum reading. (The EUT was pre-tested with three axes (X, Y, Z) and the final test was performed at the worst case.)
- 6. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 7. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.





Measurement Instrument Setting

- Frequency Range: Below 1 GHz RBW = 100 or 120 kHz, VBW = 3 x RBW, Detector = Peak or Quasi Peak
- Frequency Range: Above 1 GHz
 Peak Measurement
 RBW = 1 MHz, VBW = 3 MHz, Detector = Peak, Sweep time = Auto, Trace mode = Max Hold until the trace stabilizes

Average Measurement RBW = 1MHz, VBW ≥ 1/T, Detector = Peak, Sweep Time = Auto, Trace Mode = Max Hold until the trace stabilizes

11.4 Test Procedure for Conducted Spurious Emission

- 1. The transmitter output was connected to the spectrum analyzer.
- The reference level of the fundamental frequency was measured with the spectrumanalyzer using RBW = 100 kHz, VBW = 300 kHz.
- The conducted spurious emission was tested each ranges were set as below. Frequency range: 30 MHz ~ 26.5 GHz RBW = 100 kHz, VBW = 300 kHz, Sweep Time = Auto, Detector = Peak, Trace = Max Hold

LIMIT LINE = 20 dB below of the reference level of above measurement procedure Step 2. (RBW = 100 kHz, VBW = 300 kHz)

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11.5 Test Result

9 kHz \sim 10 GHz Data

• Low frequency

Fraguanay	Rea	ding			2225	Lin	nits	Re	sult	Ma	rgin
Frequency	(dBu	V/m)	Pol.	T.F (dB)	DCCF (dB)	(dBu	iV/m)	(dBu	IV/m)	(d	B)
(MHz)	AV /	/ Peak		(00)	(00)	AV /	Peak	AV /	Peak	AV /	Peak
1 805.50	56.27	65.45	V	-12.69	N/A	54.0	74.0	43.6	52.8	10.4	21.2
2 708.12	53.75	63.68	V	-8.95	N/A	54.0	74.0	44.8	54.7	9.2	19.3
3 610.96	44.47	51.39	V	-6.13	N/A	54.0	74.0	38.3	45.3	15.7	28.7
4 513.74	40.35	53.94	Н	-1.69	N/A	54.0	74.0	38.7	52.3	15.3	21.8
5 416.47	37.09	49.48	V	1.43	N/A	54.0	74.0	38.5	50.9	15.5	23.1

• Middle frequency

Frequency	Rea	ding		Ŧ	0.005	Lin	nits	Re	sult	Ма	rgin
Frequency	(dBu	V/m)	Pol.	T.F (dB)	DCCF (dB)	(dBu	V/m)	(dBu	V/m)	(d	В)
(MHz)	AV /	[/] Peak		(00)	(00)	AV /	Peak	AV /	Peak	AV /	Peak
1 829.54	58.57	70.40	V	-12.69	N/A	54.0	74.0	45.9	57.7	8.1	16.3
2 744.35	53.78	68.37	V	-8.93	N/A	54.0	74.0	44.9	59.4	9.2	14.6
3 659.00	51.34	59.28	V	-6.07	N/A	54.0	74.0	45.3	53.2	8.7	20.8
4 573.67	39.84	59.45	Н	-1.68	N/A	54.0	74.0	38.2	57.8	15.8	16.2
5 488.55	37.63	55.26	V	1.51	N/A	54.0	74.0	39.1	56.8	14.9	17.2

High frequency

Fraguaday	Rea	ding			2225	Lin	nits	Re	sult	Ма	rgin
Frequency	(dBu	V/m)	Pol.	T.F (dB)	DCCF (dB)	(dBu	V/m)	(dBu	ıV/m)	(d	B)
(MHz)	AV /	[/] Peak		(40)	(40)	AV /	Peak	AV /	Peak	AV /	Peak
1 854.56	63.77	75.07	V	-12.45	N/A	54.0	74.0	51.3	62.6	2.7	11.4
2 781.71	60.21	68.93	V	-8.93	N/A	54.0	74.0	51.3	60.0	2.7	14.0
3 708.91	45.50	52.04	V	-5.92	N/A	54.0	74.0	39.6	46.1	14.4	27.9
4 636.29	41.56	57.41	Н	-1.43	N/A	54.0	74.0	40.1	56.0	13.9	18.0
5 563.50	41.05	55.48	V	2.27	N/A	54.0	74.0	43.3	57.8	10.7	16.3

Note 1: The radiated emissions were inverstigated 9 kHz to 10 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

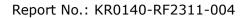
Note 2: DCCF(Duty Cycle Correction Factor)

Note 3: Sample Calculation.

Margin = Limit - Result / Peak Result = Peak Reading + TF / Average Result = Average Reading + TF

TF = Ant factor + Cable Loss + Filter Loss - Amp Gain + Distance Factor

Distance Factor = 20log(applied distance/required distance) = 20log(3.75m/3m) = 1.94





11.6 Test Plot for Radiated Spurious Emission

• RFID _ Low frequency

80 days 80 days 80 days 80 days 90								5	purious	- Peak	
Det Level (1) * Rew 1ML * Rew R	MultiViou 0	Enoctrum		Spectrum 2	Enactr		,				
Induct Induct Induct Induct Induct NIII Induct NIII Induct	Ref Level 107.0	0 dBµV		RBW 1 MHz							
100 du/r MI[1] 6.3.5 du/r 100 du/r 100 du/r 100 du/r 100 d	Input	15 dB SWT 1 AC PS	1.01 ms ● \ On I	VBW 3 MHz Mod Notch Off	e Auto Sweep			Fre	equency 1.80		
000 000- 0000- 00 000- 0000- <t< td=""><td>I Frequency Sw</td><td>еер</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>65.45 dBµV</td></t<>	I Frequency Sw	еер								65.45 dBµV	
80 day	100 dBµV								1.	80549920 GHz	
80 day											
10 0,00 0,00	90 dBµV										
60 8µ/ 60 8µ/ 60 8µ/ 60 8µ/ 60 8µ/ 60 8µ/ 61 8µ/	80 dBµV			_							
60 @u/ 60 @u/ 60 @u/ 60 @u/ 60 @u/ 60 @u/ CF 1.8055 GHz 1001 pts 1.0 MHz/ Span 10.0 M											
50 @u/ 40 @u/ 20 @u/ 20 @u/ 20 @u/ 20 @u/ 20 @u/ EF 1.8055 GHz 1001 pts 1.0 MHz/ Span 10.0 MHz/ Spa	70 dBµV				M	1					
50 @u/ 40 @u/ 20 @u/ 20 @u/ 20 @u/ 20 @u/ 20 @u/ EF 1.8055 GHz 1001 pts 1.0 MHz/ Span 10.0 MHz/ Spa	60. dBuV										
40 dp/ 40 dp/<	00 000										
40 dp/ <	50 dBµV						A A A A A A A A A A A A A A A A A A A				
30 dkµ/ 10 dkµ/ 10 dkµ/ 10 dkµ/ 10 dkµ/ 10 dkµ/ 10 dkµ/ Span 10.0 MHz/ Span 10.0 MHz/ CF 1.8055 GHz 1001 pts 1.0 MHz/ Span 10.0 MHz/ Span 10.0 MHz/ Spectrum 2 Spectrum 3 V RefLevel 107.00 dkµ/ * BBW 11 MHz Index Notes Frequency 1.8055000 GHz Index Notes Index Notes 0 dkµ/ Index Notes 0 dkµ/ Index Notes 0 dkµ/ Index Notes Index Notes Index Notes Spectrum 3 V Index Notes Index Notes Index Notes Index Notes Index Notes Index Notes Index Notes Index Notes Index Notes <td colsp<="" td=""><td></td><td>within</td><td>and when he what</td><td>warm</td><td></td><td></td><td>manual</td><td>Mohand</td><td>monthlything</td><td>m.H.um.Mannorm</td></td>	<td></td> <td>within</td> <td>and when he what</td> <td>warm</td> <td></td> <td></td> <td>manual</td> <td>Mohand</td> <td>monthlything</td> <td>m.H.um.Mannorm</td>		within	and when he what	warm			manual	Mohand	monthlything	m.H.um.Mannorm
20. ###	40 dBµV										
10 db// IOU1 pts I.0 MHz/ Span 10.0 MHz Spectrum 2 Spectrum 3 C Reflect 107.00 db// Reflect 107.00 db// Input 5 db SWT 1 + 8 RBW Note: hore of the second secon	30 dBµV										
10 db// IOU pts I.0 MHz/ Span 10.0 MHz Spectrum 2 Spectrum 3 2 Reflect 107.00 db// Reflect 107.00 db// Index High Spectrum 2 Spectrum 3 2 Trequency 1.8055000 GHz Index High											
CF 1.8055 GHz 1001 pts 1.0 MHz/ Span 10.0 MHz Spectrum 2 x Spectrum 3 x requency 100.0 dBy/ Ref Level 107.00 dBy/ * RBW 10 Hz x Spectrum 3 x * Input 15.6 SWT 15 * VBW 10 Hz x Spectrum 3 x * * Input 16.6 PS ch Notch 0ff Mode Auto Sweep Frequency 1.8055000 GHz Input 1.4C PS ch Notch 0ff Mode Auto Sweep * * 10 dBy/ 40.6 By/ 40.6 By/ 40.6 By/ * * * 10 dBy/ 40.6 By/ 40.6	20 dBµV										
CF 1.8055 GHz 1001 pts 1.0 MHz/ Span 10.0 MHz Spectrum 2 x Spectrum 3 x requency 100.0 dBy/ Ref Level 107.00 dBy/ * RBW 10 Hz x Spectrum 3 x * Input 15.6 SWT 15 * VBW 10 Hz x Spectrum 3 x * * Input 16.6 PS ch Notch 0ff Mode Auto Sweep Frequency 1.8055000 GHz Input 1.4C PS ch Notch 0ff Mode Auto Sweep * * 10 dBy/ 40.6 By/ 40.6 By/ 40.6 By/ * * * 10 dBy/ 40.6 By/ 40.6											
MultiView Spectrum Spectrum Spectrum Trequency Trequency 1.8055000 GHz Ref Level 15.00 SW 10Hz Mode Auto Sweep Frequency 1.8055000 GHz Input 1.6C PS 0.11 Mode Auto Sweep Frequency 1.8055000 GHz IFrequency Sweep 111 5.27.80µV 1.8055920 GHz 1.8055920 GHz 100 dbµV 1.80549920 GHz 1.80549920 GHz 1.80549920 GHz 1.80549920 GHz 90 dbµV	10 авру CF 1.8055 GHz			1001 pts	6	1	.0 MHz/		S	pan 10.0 MHz	
MultiView Spectrum Spectrum Spectrum Trequency Trequency 1.8055000 GHz Ref Level 15.00 SW 10Hz Mode Auto Sweep Frequency 1.8055000 GHz Input 1.6C PS 0.11 Mode Auto Sweep Frequency 1.8055000 GHz IFrequency Sweep 111 5.27.80µV 1.8055920 GHz 1.8055920 GHz 100 dbµV 1.80549920 GHz 1.80549920 GHz 1.80549920 GHz 1.80549920 GHz 90 dbµV								0	•	A	
Ref Level 107.00 dBµ/ Att 15 dB SWF 1 Si = VBW 10 Hz MM de Auto Sweep Frequency 1.8055000 GHz Input 1AC PS 0 Mode M11 Si = VBW M12 Si = VBW Input 1AC PS M11 Si = VBW M12 Si = VBW M12 Si = VBW Input 1AC PS M11 Si = VBW M12 Si = VBW M12 Si = VBW Input 1AC PS M11 Si = VBW M12 Si = VBW M12 Si = VBW Input 1AC PS M12 Si = VBW M12 Si = VBW M12 Si = VBW Input 1AC PS M12 Si = VBW M1								Spur	ious – /	Average	
Ref Level 107.00 dB/V RBW 1 MHz Mode Auto Sweep Frequency 1.8055000 GHz Input 1AC PS On Notch Off It Wato Sweep It Regulation Strength and PS On Notch 10 dB/V 90 dB/V 120530920 GHz It Regulation Strength and PS On Notch It Regulation Streng	MultiView #	Spectrum		Spectrum 2	X Spectr	um 3 🛛 🛛	3			▽	
I Frequency Sweep • I Reductory Sweep 100 dbµ'	Ref Level 107.0	0 dBuV	• RBW	1 MHz			1	Err			
100 dbµ/ M1[1] S6.27 dbµ/ 90 dbµ/ 1.80549920 GH2 90 dbµ/ 1.805499	Input	1 AC PS	On Notch	1 Off	o oweep			rie.	equency 1.80		
90 dbµ/ 90 dbµ/ 90 dbµ/ 90 dbµ/ 80 dbµ/ 90 dbµ/ 90 dbµ/ 90 dbµ/										56.27 dBµV	
80 dbµ/	100 dBµV								1.	50349920 012	
80 dbµ/	90 dBuV										
70 dbµ/ 1 1 1 60 dbµ/ 1 1 1 50 dbµ/ 1 1 1 40 dbµ/ 1 1 1 30 dbµ/ 1 1 1 20 dbµ/ 1 1 1 10 dbµ/ 1 1 1											
60 dbµv	80 dBµV										
60 dbµv	70 40-11										
50 dbµV 40 dbµV 30 dbµV 20 dbµV 10 dbµV	ro uppy										
40 daµv	60 dBµV				м	1					
40 daµv											
20 dBµV	50 dBµV				/						
20 dBµV	40 dBµV										
20 dBµV											
10 dbµv	30 dBµV										
10 dbµv											
	20 dBµV										
	10 dBµV										
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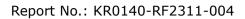
						S	purious	s – Peal
MultiView 🗄 Spe	ctrum 🕱	Spectrum 2	X Spectr	um 3 🛛 🛛				
Ref Level 107.00 dBµ Att 15 di Input 1 Att	/ • 3 SWT 1.01 ms • C PS On	RBW 1 MHz VBW 3 MHz Mod	le Auto Sweep			Fre	equency 2.70	082500 GHz
Frequency Sweep	5 P3 01						M1[1]	1Pk Max 63.68 dBµV
.00 dBµV								70812000 GHz
0 dBµV								
o apha								
0 dBµV								
0 dBµV								
			M1 Y					
0 dBµV			J					
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nature for an addition of the	hummericanic	wand manyard			and which and a second	and how have	of the work of the second second	www.phine
40 dBμV								
ю dBµV								
20 dBµV								
.0 dBµV								
		1001 pt:	s	1	.0 MHz/			Span 10.0 MHz
		1001 pt	s	1	.0 MHz/	Spur		
					.0 MHz/	Spur		Average
F 2.70825 GHz	/ • RBW	Spectrum 2	X Spectr		2		ious – .	Average
F 2.70825 GHz		Spectrum 2	X Spectr		2		ious – .	Average
F 2.70825 GHz	/ • RBW	Spectrum 2	X Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz 10k Max 53.75 dBµV
۲ 2,70825 GHz MultiView ۲ Spe Ref Level 107.00 هل Att 15 d Input 1 At Frequency Sweep	/ • RBW	Spectrum 2	X Spectr		2		ious — , equency 2.74 M1[1]	Average
F 2.70825 GHz	/ • RBW	Spectrum 2	X Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz 10k Max 53.75 dBµV
F 2.70825 GHz MultiView Spe Ref Level 107.00 dBµ Att 15 d Input 1 At Frequency Sweep 00 dBµV 00 dBµV 10 dBµV	/ • RBW	Spectrum 2	X Spectr		2		ious — , equency 2.74 M1[1]	Averag 082500 GH: 1Pk Max 53.75 dBµV
F 2.70825 GHz MultiView Spe Ref Level 107.00 dBµ Att 15 d Input 1 At Frequency Sweep 00 dBµV 00 dBµV 10 dBµV	/ • RBW	Spectrum 2	X Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz 10k Max 53.75 dBµV
XF 2,70825 GHz MultiView Spe Ref Level 107.00 dBµ Att 15 d Input 1 At Frequency Sweep 100 dBµV 100 dBµV 100 dBµV 100 dBµV 100 dBµV	/ • RBW	Spectrum 2	X Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz 10k Max 53.75 dBµV
Эр 2,70825 GHz MultiView # Spe Ref Level 107.00 dBµ 1At Input 1 At 1K Frequency Sweep 100 dBµV 100 dBµV 30 dBµV 70 dBµV 70 dBµV	/ • RBW	Spectrum 2	X Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz 10k Max 53.75 dBµV
Spectral Spectral MultiView Spectral Ref Level 107.00 dBµ Att 15 di Input 1 Att Input 1 Att	/ • RBW	Spectrum 2	X Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz 10k Max 53.75 dBµV
Эр 2,70825 GHz MultiView # Spe Ref Level 107.00 dBµ 1At Input 1 At 15 di Input 1 At 16 di Frequency Sweep 100 dBµV 30 dBµV 30 dBµV 50 dBµV 50 dBµV	/ • RBW	Spectrum 2	x Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz 10k Max 53.75 dBµV
CF 2.70825 GHz	/ • RBW	Spectrum 2	x Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz • 1Pk Max 53.75 dBµV
Spectral Spectral MultiView Spectral Ref Level 107.00 dBµ Att 15 di Input 1 At Input	/ • RBW	Spectrum 2	x Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz • 1Pk Max 53.75 dBµV
Spectral Spectral MultiView Spectral Ref Level 107.00 dBµ Att 15 di Input 1 At Input	/ • RBW	Spectrum 2	x Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz • 1Pk Max 53.75 dBµV
Spectral Spectral MultiView Spectral Ref Level 107.00 dBµ Att 15 di Input 1 Att Input 1 Att	/ • RBW	Spectrum 2	x Spectr		2		ious — , equency 2.74 M1[1]	Average verage 082500 GHz 10k Max 53.75 dBµV
Spectral Spectral MultiView Spectral Ref Level 107.00 dBµ Att 15 di Input 1 Att Input 1 Att	/ • RBW	Spectrum 2	x Spectr		2		ious — , equency 2.74 M1[1]	082500 GHz 1Pk Max 53.75 dBµV

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							S	purious	s – Peak
MultiView	Spectrum	x Sp	ectrum 2	X Spectr	rum 3 🛛 🛛				∇
Ref Level 107 Att Input	.00 dBµV 15 dB SWT 1 AC PS	• RB 1.01 ms • VB On Not		le Auto Sweep		_	Fr	equency 3.6	110000 GHz
1 Frequency S								M1[1]	 1Pk Max 51.39 dBµV
100 dBµV								3.	61096000 GHz
90 dBµV									
80 dBµV									
on npha									
70 dBµV									
60 dBµV									
50 dBµV				M	marken				
mahaney	halling	www.www.u.u.	umbund	And the second se	- Southern Contraction	a margane	antenno	manaman	munder
40 dBµV									
30 dBµV									
20 dBµV									
10 dBµV									
CF 3.611 GHz			1001 pt	s	1	.0 MHz/		9	Span 10.0 MHz
							Spur	ious – ,	Average
MultiView	Spectrum	x Sp	ectrum 2	X Spectr	um 3 🛛 🗴				▽
Ref Level 107 Att Input	15 dB SWT	● RBW 1 1 s ● VBW 1 On Notch	MHz 0 Hz Mode Au Off	to Sweep			Fr	equency 3.6	 110000 GHz
1 Frequency S		on Notal						M1[1]	 1Pk Max 44.47 dBµV
100 dBµV								3.	61100000 GHz
90 dBµV									
80 dBµV									
00 0000									
70 dBμV									
60 dBµV									
50 dBµV									
40 JD 41									
40 dBµV									
30-dBµV									
20 dBµV									
10 dBµV									
CF 3.611 GHz		1	1001 pt	s S	1	.0 MHz/	1	5	Span 10.0 MHz

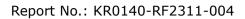
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							S	purious	- Peak
MultiView #	Spectrum	x Sp	ectrum 2	X Spectr	um 3 🛛 🗴	3			▽
Ref Level 107.00 Att 1	15 dB SWT	1.01 ms = VB	W 1 MHz W 3 MHz Moo	le Auto Sweep		_A	Fn	equency 4.51	.37500 GHz
Input 1 Frequency Swee	1 AC PS	On No	tch Off					M1[1]	 1Pk Max 53.94 dBμV
100 dBµV									51374000 GHz
90 dBµV									
30 00077									
80 dBµV									
70 dBµV									
co. 40-41									
60 dBµV				M	1				
50 dBµV					- And				
40 dBµV	manne	when when	www.marenall			Manana Manaraki	hranson	hannable	un habite har
30 dBµV									
20 dBµV									
10 dBµV									
CF 4.51375 GHz	1		1001 pt	S	1	.0 MHz/	1	S	pan 10.0 MHz
							Spur	ious – A	Average
MultiView :	Spectrum	x Sp	ectrum 2	X Spectr	um 3 🛛 🕱	3			▽
Ref Level 107.00 Att 1	L5 dB S₩T	● RBW 1 1 s ● VBW 1	10 Hz Mode Au	to Sweep		A	Fn	equency 4.51	.37500 GHz
Input 1 Frequency Swee	1 AC PS	On Notch	0#					M1[1]	 1Pk Max 40.35 dBµV
100 dBµV									51366000 GHz
90 dBµV									
30 00074									
80 dBµV									
70 dBµV									
60 dBµV									
00 08µv									
50 dBµV									
40 dBµV				M1					
30 dBµV									
20 dBµV									
10 dBµV									
CF 4.51375 GHz			1001 pt	s	1	.0 MHz/	1	S	pan 10.0 MHz

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					S	purious	s – Peak
MultiView 🗄 Spect	trum 🕱 Spectrum 2	X Spectr	um 3 🛛 🕱)			▽
Ref Level 107.00 dBµV Att 15 dB Input 1 AC	BBW 1 MHz SWT 1.01 ms VBW 3 MHz M PS On Notch Off	ode Auto Sweep		-1	Fre	equency 5.41	L65000 GHz
1 Frequency Sweep						M1[1]	● 1Pk Max 49.48 dBµV
100 dBµV						5.	41647000 GHz
90 dBµV							
80 dBµV							
70 dBµV							
70 dBhA							
60 dBµV							
50 dBµV		السمين ا	and the second sec				
ffrdBull	the and a state of the second	un have	Wand	You want want	www.	-	ghalan an a
30 dBµV							
20 dBµV							
10 dBµV CF 5.4165 GHz	1001	nts	1	.0 MHz/		S	ipan 10.0 MHz
					Sour		Average
				<u> </u>	opui	1000 ,	
MultiView E Spect	RBW 1 MHz	X Spectr	um 3 🛛 🗶				v
Att 15 dB Input 1 AC 1 Frequency Sweep	SWT 1 s ● VBW 10 Hz Mode / PS On Notch Off	-uto sweep			ГК		165000 GHz
100 dBµV						M1[1] 5.	37.09 dBµV 41646000 GHz
90 dBµV							
50 00pr							
80 dBµV							
70 dBµV							
60 dBµV							
50 dBµV							
40 dBµV							
30 dBµV							
20 dBµV							
10 dBµV							
CF 5.4165 GHz	1001	pts	1	.0 MHz/		S	pan 10.0 MHz

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• RFID _ Middle frequency

							S	purious	- Peak
MultiView	# Spectrum	xs	pectrum 2	X Spectr	um 3 🛛 🕱	7			
RefLevel 10	7.00 dBµV	• RE	3WF 1 MHz 3WF 3 MHz Moo			1		1.0	
Att Input 1 Frequency S	1 AC PS	0n No	otch Off	e Auto Sweep			Fr	equency 1.8.	295000 GHz
								M1[1]	70.40 dBµV 82954000 GHz
100 dBµV									5255-4000 GHz
90 dBµV									
80 dBµV									
70 dBµV									
60 dBµV			1	P ^r		N			
50 dBµV						- when			
	metunion	up when the second	U. M. Martin			When	mmadente	Jan Mundha	annan
40 dBµV									
30 dBµV									
20 dBµV									
20 0004									
10 dBµV									
CF 1.8295 GH	Z		1001 pt	S	1	.0 MHz/			Span 10.0 MHz
							Spur	ious – .	Average
MultiView	# Spectrum	x S	pectrum 2	X Spectr	rum 3 🛛 🕱	3			▽
Ref Level 10 Att	7.00 dBµV	• RBW	1 MHz			1	Fr	equency 1.8	295000 GHz
Input 1 Frequency S	1 AC PS Sweep	On Notch	10 Hz Mode Au Off						• 1Pk Max
100 dBµV								M1[1]	58.57 dBµV 82953000 GHz
100 0007									
90 dBµV									
80 dBµV									
70 dBµV									
60 dBµV					1				
50 dBµV			1						
40 dBµV			\perp			\backslash			
30 dBµV									
20 dBµV									
10 dBµV	2		1001 pt	c	1	.0 MHz/			Span 10.0 MHz

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							S	purious	s – Peał																																																		
MultiView	Spectrum	x Sp	ectrum 2	X Spectr	um 3 🛛 🗴	3			▽																																																		
Ref Level 107 Att	7.00 dBµV 15 dB SWT	● RB 1.01 ms ● VB	W 1 MHz W 3 MHz Mod	le Auto Sweep		A	Fn	equency 2.7	442500 GHz																																																		
Input Frequency S	1 AC PS weep	On No	tch Off						• 1Pk Max																																																		
100 dBµV								M1[1] 2	68.37 dBµV 74435000 GHz																																																		
0 dBµV																																																											
0 dBµV																																																											
0 dBµV					M1																																																						
o asha																																																											
0 dBµV																																																											
60 dBµV						\mathbf{X}																																																					
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0 dBµV																																																											
F 2.74425 Gł	HZ		1001 pt	s	1	.0 MHz/			Span 10.0 MHz																																																		
							Spur	ious -	Average																																																		
MultiView	Spectrum	x Sp	pectrum 2	X Spectr	-um 3 🛛	2	Spur	ious –	Average																																																		
RefLevel 107 Att	7.00 dBµV 15 dB SWT	● RBW 1 1 s ● VBW 1	10 Hz Mode Au	<u> </u>	rum 3 🛛 🛛	3			▽																																																		
Ref Level 107 Att Input	7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	MHz		rum 3 🛛 🛛			equency 2.7	▼ 442500 GHz ●1Pk Max																																																		
Ref Level 107 Att Input Frequency S	7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		rum 3 🛛 🗴	2		equency 2.7	▼ 442500 GHz																																																		
Ref Level 107 Att Input Frequency S 00 dBµV	7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		rum 3 🛛 🛛	2		equency 2.7	▼ 442500 GHz ● 1Pk Max 53.78 dBµV																																																		
Ref Level 107 Att Input Frequency S 00 dBµV	7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		rum 3 🛛 🗴			equency 2.7	▼ 442500 GHz ● 1Pk Max 53.78 dBµV																																																		
Ref Level 107 Att Input Frequency S 00 dBµV	7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		um 3 (x			equency 2.7	▼ 442500 GHz ● 1Pk Max 53.78 dBµV																																																		
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7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		rum 3 (2			equency 2.7	▼ 442500 GHz ● 1Pk Max 53.78 dBµV	Ref Level 107 Att Input Input <tr tr=""> <tr td="" te<=""><td>7.00 dBµV 15 dB SWT 1 AC PS</td><td>● RBW 1 1 s ● VBW 1</td><td>. MHz 10 Hz Mode Au</td><td></td><td>rum 3 🛛 🛛</td><td></td><td></td><td>equency 2.7</td><td>▼ 442500 GHz ● 1Pk Max 53.78 dBµV</td></tr><tr><td>Ref Level 107 Att Input Input 60 dbµV 90 dbµV</td><td>7.00 dBµV 15 dB SWT 1 AC PS</td><td>● RBW 1 1 s ● VBW 1</td><td>. MHz 10 Hz Mode Au</td><td></td><td>rum 3 (2</td><td></td><td></td><td>equency 2.7</td><td>▼ 442500 GHz ● 1Pk Max 53.78 dBµV</td></tr><tr><td>Att Input IF requency S IF requency S 90 dbµv 90 dbµv 90 dbµv 60 dbµv 50 dbµv 60 dbµv 60 dbµv 90 dbµv</td><td>7.00 dBµV 15 dB SWT 1 AC PS</td><td>● RBW 1 1 s ● VBW 1</td><td>. MHz 10 Hz Mode Au</td><td></td><td>rum 3 [2</td><td></td><td></td><td>equency 2.7</td><td>▼ 442500 GHz ● 1Pk Max 53.78 dBµV</td></tr><tr><td>Ref Level 107 Att Input Input 90 dBµV 90 dBµV</td><td>7.00 dBµV 15 dB SWT 1 AC PS</td><td>● RBW 1 1 s ● VBW 1</td><td>. MHz 10 Hz Mode Au</td><td></td><td>rum 3 (2</td><td></td><td></td><td>equency 2.7</td><td>▼ 442500 GHz ● 1Pk Max 53.78 dBµV</td></tr><tr><td>Ref Level 107 Att Input Input 90 dBµV 90 dBµV 90 dBµV 90 dBµV 60 dBµV 60 dBµV 60 dBµV 40 dBµV</td><td>7.00 dBµ// 15 dB SWT 1 AC PS WGCp</td><td>● RBW 1 1 s ● VBW 1</td><td>. MHz 10 Hz Mode Au</td><td>to Sweep</td><td></td><td>.0 MHz/</td><td></td><td>equency 2.7</td><td>442500 GHz 1Pk Max 53.78 dBµV</td></tr></tr>	7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		rum 3 🛛 🛛			equency 2.7	▼ 442500 GHz ● 1Pk Max 53.78 dBµV	Ref Level 107 Att Input Input 60 dbµV 90 dbµV	7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		rum 3 (2			equency 2.7	▼ 442500 GHz ● 1Pk Max 53.78 dBµV	Att Input IF requency S IF requency S 90 dbµv 90 dbµv 90 dbµv 60 dbµv 50 dbµv 60 dbµv 60 dbµv 90 dbµv	7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		rum 3 [2			equency 2.7	▼ 442500 GHz ● 1Pk Max 53.78 dBµV	Ref Level 107 Att Input Input 90 dBµV 90 dBµV	7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		rum 3 (2			equency 2.7	▼ 442500 GHz ● 1Pk Max 53.78 dBµV	Ref Level 107 Att Input Input 90 dBµV 90 dBµV 90 dBµV 90 dBµV 60 dBµV 60 dBµV 60 dBµV 40 dBµV	7.00 dBµ// 15 dB SWT 1 AC PS WGCp	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au	to Sweep		.0 MHz/		equency 2.7	442500 GHz 1Pk Max 53.78 dBµV	
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7.00 dBµV 15 dB SWT 1 AC PS	● RBW 1 1 s ● VBW 1	. MHz 10 Hz Mode Au		rum 3 🛛 🛛			equency 2.7	▼ 442500 GHz ● 1Pk Max 53.78 dBµV																																																			
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MultiView 🗄	Spectrum	x SI	pectrum 2	X Spectr	um 3 🛛 🛛	-)			▽
Ref Level 107.0 Att Input	00 dBµV 15 dB SWT 1 AC PS	1.01 ms 🖶 VE	SW 1 MHz SW 3 MHz Mod otch Off	le Auto Sweep			Fr	equency 3.6	590000 GHz
Frequency Sw	veep							M1[1]	1Pk Max 59.28 dBµV
00 dBµV								3	65900000 GHz
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F 3.659 GHz			1001 pt:	s	1	.0 MHz/			Span 10.0 MHz
F 3.659 GHz			1001 pt	s	1	.0 MHz/	Spur		
F 3.659 GHz			1001 pt	s	1	.0 MHz/	Spur		
F 3.659 GHz	00 dBµV	● RBW	pectrum 2	X Spectr		2		ious – .	Average
fultiView == Ref Level 107.0 Att Input	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr		2		ious – .	Averag
AultiView H Ref Level 107.0 Att Input Frequency Sw	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr		2		ious — , equency 3.63	590000 GHz 1Pk Max 51.34 dBµV
fultiView E RefLevel 107.0 Att Input Frequency Sw	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr		2		ious — , equency 3.63	Average
AultiView Ref Level 107.0 Att Input Frequency Sw 10 dBµV	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr		2		ious — , equency 3.63	Average 590000 GH: 51.34 dBµV
AultiView E Ref Level 107.0 Att Input Frequency Sw 00 dBµV	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr		2		ious — , equency 3.63	Average 590000 GH: 51.34 dBµV
AultiView Ref Level 107.0 Att Input Frequency Sw Jo dBµV	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr		2		ious — , equency 3.63	Average 590000 GH: 51.34 dBµV
fultiView Ref Level 107.0 Att input Frequency SX 00 dbµV 0 dbµV 0 dbµV	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr		2		ious — , equency 3.63	Averag 590000 GH: 51.34 dBµV
fultiView E Ref Level 107.0 107.0 Att Input Frequency SX 0 00 dbµV 0 0 dbµV 0 0 dbµV 0 0 dbµV 0	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr		2		ious — , equency 3.63	Average 590000 GH: 51.34 dBµV
AultiView E Ref Level 107.0 107.0 Att Input Frequency SX 0 00 dbµV 0 0 dbµV 0	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr		2		ious — , equency 3.63	Average 590000 GH: 51.34 dBµV
fultiView E Ref Level 107.0 107.0 Att Input Frequency SX 0 00 dbµV 0 0 dbµV 0 0 dbµV 0 0 dbµV 0	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr to Sweep		2		ious — , equency 3.63	Average 590000 GH: 51.34 dBµV
IultiView E Ref Level 107.0 107.0 Att Input Frequency SX 0 00 dbµV 0 01 dbµV 0	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr to Sweep		2		ious — , equency 3.63	Average 590000 GH: 51.34 dBµV
IultiView I Ref Level 107.0 107.0 Att Input Frequency SV 0 I0 dBµV 0	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr to Sweep		2		ious — , equency 3.63	Averag 590000 GH: 51.34 dBµV
IultiView I Ref Level 107.0 107.0 Att Input Frequency SV 0 0 dBµV	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr to Sweep		2		ious — , equency 3.63	Average 590000 GH: 51.34 dBµV
IultiView I Ref Level 107.0 107.0 Att Input Frequency SV 0 I0 dBµV 0	00 dBµV 15 dB SWT 1 AC PS	● RBW	pectrum 2	X Spectr to Sweep		2		ious — , equency 3.63	Average 590000 GH: 51.34 dBµV

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							S	purious	s – Peak
MultiView	Spectrum	X	Spectrum 2	X Spectr	um 3 🛛 🛛]			▽
Ref Level 107 Att Input	15 dB SW1 1 AC PS	● 1.01 ms ● ' On	RBW 1 MHz VBW 3 MHz Moo Notch Off	de Auto Sweep		-	Fr	equency 4.5	737500 GHz
l Frequency S	Sweep							M1[1]	 1Pk Max 59.45 dBμV
100 dBµV								4.	57367000 GHz
90 dBµV			_						
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70 dBµV									
50 dBµV				MI	ma				
50 dBµV				and the second s	- No and a second				
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.0 dвµv .F 4.57375 Gł	Hz		1001 pt	s	1	.0 MHz/			Span 10.0 MHz
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Ref Level 107	Spectrum	• RBW	Spectrum 2	X Spectr	um 3 🛛 🎗			4.5	722500 CU-
Att Input Frequency S	1 AC PS	On Notch	10 Hz Mode Au n Off	ito sweep			Fr	equency 4.5	• 1Pk Max
100 dBµV								M1[1] 4	39.84 dBµV 57358000 GHz
90 dBµV									
80 dBµV									
70 dBµV									
50 dBµV									
50 dBµV									
40 dBµV				M1					
20 db.41									
30 dBµV									
20 dBµV			_						
10 dBµV									
CF 4.57375 Gł	47		1001 pt	s	1	.0 MHz/			Span 10.0 MHz

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MultiView Spectrum	T 5.4885000 GHz 1] 55.26 dBpV 5.48855000 GHz
Att 15 db SWT 1.01 ms ● VBW 3 MHz Mode Auto Sweep Frequency Input 1 AC PS On Notch Off M1[100 dsµV 90 dsµV 1	• 1Pk Max [1] 55.26 dBµV
1 Frequency Sweep 100 dsμν 90 dsμν	1] 55.26 dBµV
100 dBµV	
80 dBµY	
70 d8µ/	
60 dBµV	
50 dBµV	
18.184// March 19.144/ March 1	Martin Martin Maria
30 dBµv	
20 dBµV	
10 dBµV	Span 10.0 MHz
Spurious	- Average
MultiView Spectrum Spectrum X Spectrum 3 X Ref Level 107.00 dBµ/ • RBW 1 MHz • RBW 1 MHz • RBW 1 MHz • RBW • RBW <td></td>	
Input 1AC PS On Notch Off IPrequency Sweep IFrequency Sweep IFrequency Sweep	5.4885000 GHz
M1[1] 37.63 dBμV 5.48858000 GHz
100 dBµV	
100 d8µV	
90 d8µ''	
90 d8µV	
90 dbµv	
90 dbµv 80 dbµv 70 dbµv 60 dbµv 50 dbµv 40 dbµv 10	
90 dquv 80 dquv 70 dquv 60 dquv 50 dquv 40 dquv 11 1 1 1 1 1 1 1 1 1 1 1 1	

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• RFID _ High frequency

					S	purious	- Peak
Multil Granden	Charterum 2			า			▽
MultiView 🕀 Spectrun Ref Level 107.00 dBµV	• RBW 1 MHz	X Spectru	m 3 🛛 🛛	1			
Att 15 dB SW Input 1 AC PS 1 Frequency Sweep	VT 1.01 ms ⊜ VBW 3 MHz Moo On Notch Off	de Auto Sweep			Fre	equency 1.85	
1 Frequency Sweep						M1[1]	 1Pk Max 75.07 dBµV
100 dBµV						1.	85456000 GHz
90 dBµV							
80 dBµV			1				
70 dBµV							
60 dBµV				1			
50 dBµV				- NA			
power and a second second	and all and a stand and a stand			Www	mon	monther	entremplane
40 dBµV							
30 dBµV							
20 dBµV							
10 dBµV							
CF 1.8545 GHz	1001 pt	ts	1.	0 MHz/		S	pan 10.0 MHz
					Spur	ious – A	Average
		\rightarrow		<u>, </u>			
MultiView Spectrun Ref Level 107.00 dBµV	RBW 1 MHz	X Spectru	m 3 🛛 🗶	1			▽
Att 15 dB SW Input 1 AC PS	T 1 s ⊜ VBW 10 Hz Mode Au On Notch Off	ito Sweep			Fre	equency 1.85	
1 Frequency Sweep						M1[1]	• 1Pk Max 63.77 dBµV
100 dBµV						1.	85450000 GHz
90 dBµV							
80 dBµV							
80 dBµV							
70 dBµV							
70 dвµV 60 dвµV			~~~				
70 dвµV 60 dвµV							
70 dвµV							
70 daµv 60 daµv 50 daµv 40 daµv							
70 daµv 60 daµv 50 daµv 40 daµv							
70 dвµv							

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				Spurious	– Peak
MultiView # Spectrum X	Spectrum 2	Spectrum 3	(x)		∇
Ref Level 107.00 dBμV Att 15 dB SWT 1.01 ms Input 1 AC PS On	RBW 1 MHz VBW 3 MHz Mode A Notch Off	uto Sweep		Frequency 2.781	7500 GHz
1 Frequency Sweep				M1[1]	• 1Pk Max 68.93 dBµV
100 dBµV				2.78	171000 GHz
90 dBµV					
80 dBµV					
		M			
70 dBµV					
60 dBµV					
50 dBµV					
della martina de la companya de la companya A companya de la comp	mand algorithmeter		www.walk	which have made and the	enderste stranderstrafte
30 dвµv					
30 00p+					
20 dBµV					
10 dBµV СF 2.78175 GHz	1001 pts		1.0 MHz/		an 10.0 MHz
	1001 pt3			spurious – A	
				punous A	
Ref Level 107.00 dBul/ BB	Spectrum 2		X		∇
Att 15 dB SWT 1 s = VB1 Input 1 AC PS On Not I Frequency Sweep	W 10 Hz Mode Auto S tch Off	weep		Frequency 2.781	 7500 GHz 1Pk Max
100 dBµV				M1[1] 2.78	60.21 dBµV 170000 GHz
90 dBµV					
80 dBµV					
70 dBµV					
60 dBµV		M			
50 dBµV					
50 UUPT					
40 dBµV					
30 dBµV					
20 dBµV					
		1	1		
10 dBµV					

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							S	purious	s – Peak
MultiView	Spectrum	x Sp	ectrum 2	X Spectr	rum 3 🛛 🕱]			▽
Ref Level 107 Att Input	7.00 dBµV 15 dB SWT 1 AC PS	● RB 1.01 ms ● VB On No	WF 1 MHz WF 3 MHz Moo tch Off	le Auto Sweep			Fre	equency 3.70	90000 GHz
1 Frequency S								M1[1]	• 1Pk Max 52.04 dBµV
100 dBµV								3.	70891000 GHz
90 dBµV									
80 dBµV									
70 dBµV									
50 dBµV									
				MI	-				
50 dBµV	amandrador	and an analytic of	an make about	and the second second	a wednesd	monthemark	and the second second	ulunnun	No. and the b
40 dBµV									
30 dBµV									
20 dBµV									
20 UBHV									
.0 dBµV			1001 pt	6	1	.0 MHz/			pan 10.0 MHz
3 37707 GHZ			1001 pt	3	1		Crouw		
							Spur	ious – /	Average
MultiView Ref Level 107	Spectrum		ectrum 2	X Spectr	rum 3 🛛 🛛				▽
Att Input	15 dB SWT		10 Hz Mode Au	to Sweep					
Frequency S		On Notch	Off				Fre	equency 3.70	
		On Notch	Off				Fre	M1[1]	• 1Pk Max 45.50 dBµV
		On Notch	Off				Fre	M1[1]	• 1Pk Max
100 dBµV 90 dBµV		On Notch	Off				Fre	M1[1]	• 1Pk Max 45.50 dBµV
100 dBµV		On Notch	Off				Fra	M1[1]	• 1Pk Max 45.50 dBµV
100 d8μV 90 d8μV 90 d8μV		On Notch					Fra	M1[1]	 1Pk Max 45.50 dBµV
100 d8μν 90 d8μν 80 d8μν		On Notch					Fra	M1[1]	 1Pk Max 45.50 dBµV
100 dвµv 90 dвµv 80 dвµv 70 dвµv		On Notch						M1[1]	 1Pk Max 45.50 dBµV
100 dBµV		On Notch						M1[1]	• 1Pk Max 45.50 dBµV
00 d8µV 90 d8µV 80 d8µV 70 d8µV 50 d8µV 50 d8µV		On Notch						M1[1]	• 1Pk Max 45.50 dBµV
00 d8µV 90 d8µV 80 d8µV 70 d8µV 50 d8µV 50 d8µV		On Notch						M1[1]	• 1Pk Max 45.50 dBµV
00 d8µV 90 d8µV 90 d8µV 90 d8µV 90 d8µV 90 d8µV 90 d8µV		On Notch						M1[1]	• 1Pk Max 45.50 dBµV
100 dBµV 90 dBµV 80 dBµV 70 dBµV 50 dBµV		On Notch						M1[1]	• 1Pk Max 45.50 dBµV
000 dBµV 90 dBµV								M1[1]	• 1Pk Max 45.50 dBµV

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							S	purious	s – Peał
MultiView	Spectrum	x S	pectrum 2	X Spectr	rum 3 🛛 🛛				∇
Ref Level 107 Att Input	7.00 dBµV 15 dB SWT 1 AC PS	「1.01 ms ⊜ VB	SW 1 MHz SW 3 MHz Moo otch Off	le Auto Sweep			Fre	equency 4.63	362500 GHz
I Frequency S	weep							M1[1]	 1Pk Max 57.41 dBμV
100 dBµV								4.	63629000 GHz
90 dBµV									
10 dBµV									
u upha									
0 dBµV									
0 dBµV					v <u>1</u>				
0 dBµV				Marine	and the				
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ю dBµV	a new strate officials	ality in Physical .	nondeller zu			1.1.45.86	e and for the second	anter a constant data a	NA COMPLEX MEDIC
0 dBµV									
0 dBµV									
о _{dBµV} F 4.63625 GH	Hz		1001 pt	s	1	.0 MHz/		5	Span 10.0 MHz
							Sour	ious –	Average
							Opui	1043 /	werage
MultiView	ľa i								(
	7.00 dBµV	• RBW	pectrum 2 1 MHz		rum 3 🛛 🛛				▽
Att Input	7.00 dBµV 15 dB SWT 1 AC PS	• RBW			rum 3 🛛 🗴		Fre	equency 4.63	362500 GHz
Att Input Frequency S	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au		rum 3 🛛 🛛		Fre	M1[1]	362500 GHz • 1Pk Max 41.56 dBµV
Att Input Frequency S	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au		rum 3 🛛 🗴		Fre	M1[1]	362500 GHz
Att Input Frequency S 00 dBµV	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au		rum 3 (x		Fre	M1[1]	362500 GHz • 1Pk Max 41.56 dBµV
Att Input Frequency S оо dвµv	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au		rum 3 (x		Fra	M1[1]	362500 GHz • 1Pk Max 41.56 dBµV
Att Input Frequency S 00 d8μV 0 d8μV	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au		rum 3 (x		Fre	M1[1]	362500 GHz • 1Pk Max 41.56 dBµV
Att Input Frequency S 00 d8μV 10 d8μV 10 d8μV	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au				Fre	M1[1]	362500 GHz • 1Pk Max 41.56 dBµV
Att Input Input IFrequency S Ico dBμV Ico dBμV Ico dBμV Ico dBμV Ico dBμV Ico dBμV	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au		um 3 🛛 🗴		Fra	M1[1]	362500 GHz • 1Pk Max 41.56 dBµV
Input Frequency S Frequency S 80 dbµv 80 dbµv 70 dbµv 50 dbµv	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au				Fre	M1[1]	362500 GHz • 1Pk Max 41.56 dBµV
Att Input Frequency S 6 Frequency S 90 dbµv 90 dbµv 80 dbµv 70 dbµv 60 dbµv 50 dbµv	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au		um 3 🛛		Fre	M1[1]	362500 GHz 1Pk Max 41.56 dBµV
Att Input Frequency S Frequency S ao deµv ao deµv ao deµv ao deµv bo deµv ao deµv bo deµv bo deµv ao deµv bo deµv	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au					M1[1]	362500 GHz 1Pk Max 41.56 dBµV
Att Input Frequency S Frequency S ao deµv ao deµv ao deµv ao deµv bo deµv ao deµv bo deµv bo deµv ao deµv bo deµv	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au					M1[1]	362500 GHz 1Pk Max 41.56 dBµV
Att Input Input 90 dbµv 90 dbµv 80 dbµv 70 dbµv 60 dbµv	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au					M1[1]	362500 GHz 1Pk Max 41.56 dBµV
Att Input IFrequency S IFrequency S 90 dbµv 90 dbµv 90 dbµv 60 dbµv 50 dbµv 60 dbµv 60 dbµv 90 dbµv	7.00 dBµV 15 dB SWT 1 AC PS	● RBW : 1 s ● VBW	1 MHz 10 Hz Mode Au					M1[1]	362500 GHz 1Pk Max 41.56 dBµV

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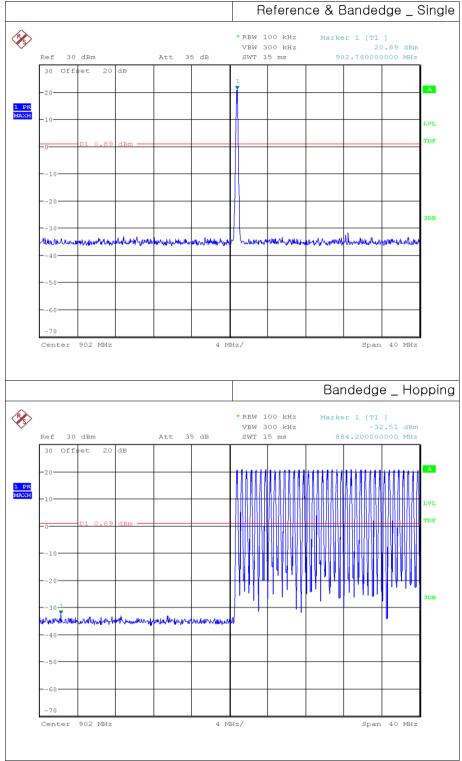
							S	purious	s – Peak
MultiView	B Spectrum	X	Spectrum 2	X Spectr	um 3 🛛 🛛	2			▽
Ref Level 107 Att	15 dB SWT	1.01 ms 🖶 V	BW 1 MHz BW 3 MHz Mo	de Auto Sweep		-	Fr	equency 5.56	635000 GHz
Input 1 Frequency S	1 AC PS	On N	lotch Off					M1[1]	• 1Pk Max 55.48 dBµV
100 dBµV									56350000 GHz
90 dBµV									
80 dBµV									
70 dBµV									
60 dBµV									
					the second se				
50 dBµV				And a start of the	م مر م	h.			
<mark>и</mark> фО.,dByV. sht.com/c	Murrow Marry	rmurretury	and the second and th			- Andrew A	and the production of the second	how way	and the state of the second
30 dBµV									
20 dBµV									
20 0001									
10 dBµV	z		1001 pt	is is	1	.0 MHz/			Span 10.0 MHz
			•			•	Sour		Average
						_	opu	1040 /	
MultiView Ref Level 107	7.00 dBµV	• RBW	Spectrum 2 1 MHz	X Spectr	um 3 🛛 🛛	< L			▽
Att Input 1 Frequency S	1 AC PS	1 s ⊕ VBW On Notch	10 Hz Mode Au Off	ito Sweep			Fr	equency 5.56	535000 GHz
100 dBµV								M1[1] 5.	41.05 dBµV 56346000 GHz
100 0007									
90 dBµV									
80 dBµV									
70 dBµV									
60 dBµV									
50 dBµV									
40 dBµV				M					
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20 dBµV									
10 10 11									
10 dBµV			1001 pt			.0 MHz/			Span 10.0 MHz

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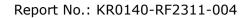


11.7 Test Plot for Conducted Spurious Emission

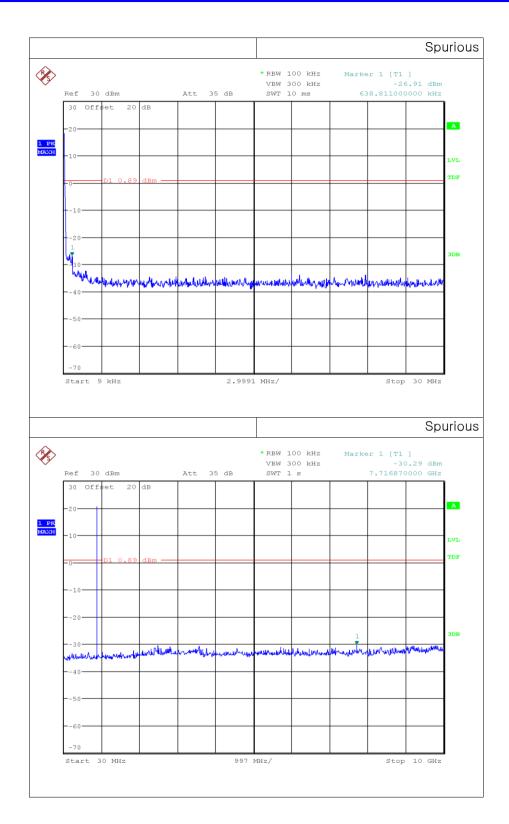
• RFID _ Low frequency



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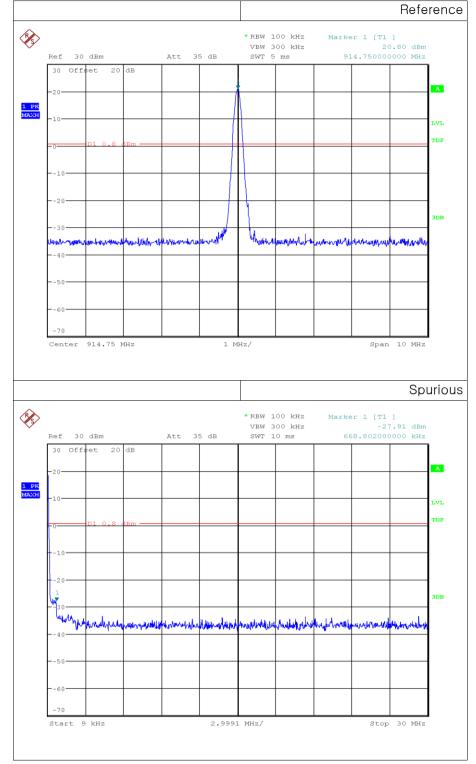




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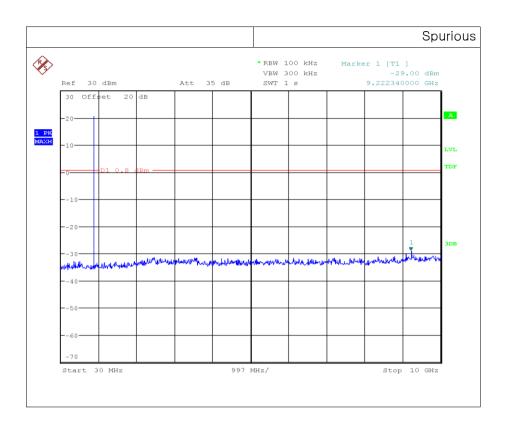


• RFID _ Middle frequency



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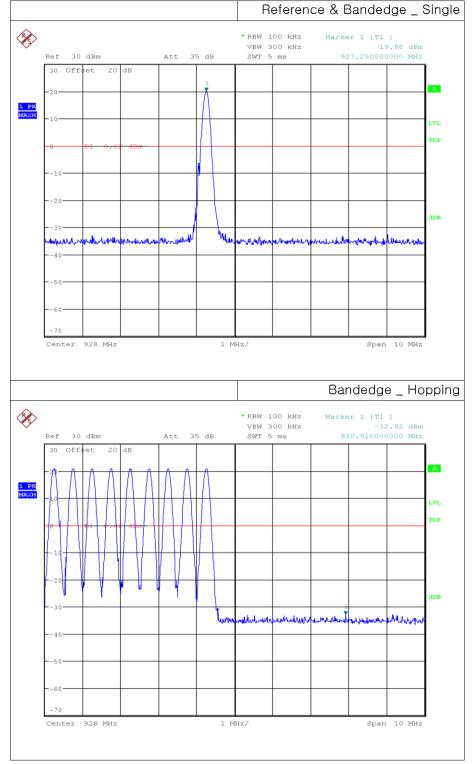




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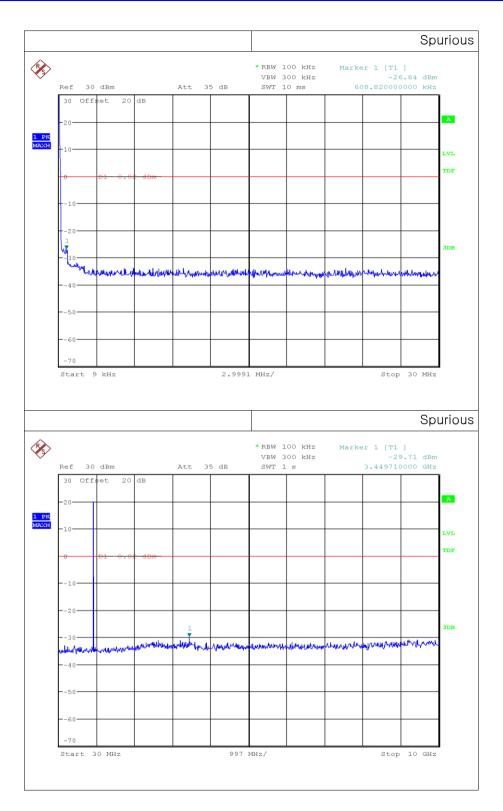


• RFID _ High frequency



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12. Conducted Emission

12.1 Test Setup

See test photographs for the actual connections between EUT and support equipment.

12.2 Limit

According to §15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Fraguaday Banga (MHz)	Conducted Limit (dBuV)				
Frequency Range (MHz)	Quasi-Peak	Average			
0.15 ~ 0.5	66 to 56 *	56 to 46 *			
0.5 ~ 5	56	46			
5 ~ 30	60	50			

* Decreases with the logarithm of the frequency

12.3 Test Procedure

Conducted emissions from the EUT were measured according to the ANSI C63.10.

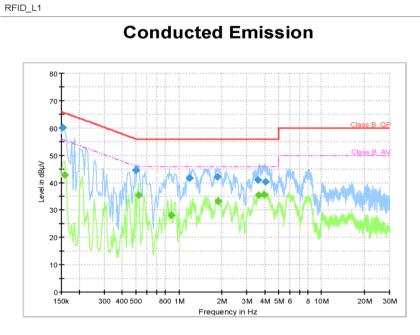
- The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
- 4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

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12.4 Test Result

• AC Line Conducted Emission (Graph)

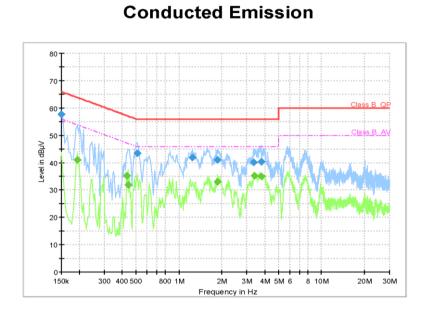


Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Bandwidth	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)	(kHz)		(dB)
0.154	60.09		65.78	5.69	9	L1	19.7
0.158		42.89	55.57	12.68	9	L1	19.8
0.500	44.65		56.00	11.35	9	L1	19.8
0.520		35.39	46.00	10.61	9	L1	19.8
0.890		27.98	46.00	18.02	9	L1	19.7
1.190	41.70		56.00	14.30	9	L1	19.7
1.860	42.07		56.00	13.93	9	L1	19.7
1.890		33.28	46.00	12.72	9	L1	19.7
3.570	41.11		56.00	14.89	9	L1	19.7
3.600		35.39	46.00	10.61	9	L1	19.7
3.940		35.70	46.00	10.30	9	L1	19.7
4.040	40.37		56.00	15.63	9	L1	19.7

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RFID_N

Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Bandwidth	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)	(kHz)		(dB)
0.150	57.82		66.00	8.18	9	N	19.7
0.194		40.90	53.86	12.97	9	N	19.6
0.430		35.18	47.25	12.08	9	N	19.8
0.442		31.87	47.02	15.16	9	N	19.8
0.510	43.41		56.00	12.59	9	N	19.7
1.240	41.96		56.00	14.04	9	N	19.7
1.860	41.10		56.00	14.90	9	N	19.7
1.860		32.92	46.00	13.08	9	N	19.7
3.330	40.17		56.00	15.83	9	N	19.7
3.370		35.12	46.00	10.88	9	N	19.7
3.780		35.01	46.00	10.99	9	N	19.7
3.780	40.39		56.00	15.61	9	N	19.7

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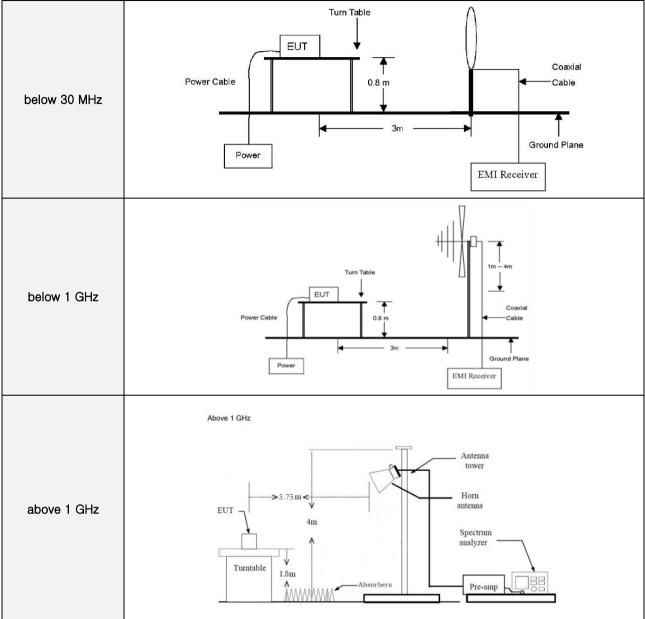
APPENDIX I

TEST SETUP

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Radiated Measurement



• Conducted Measurement

		_			
Conducted	EUT		Attenuator	Spectrum Analyzer	

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APPENDIX II

UNCERTAINTY

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Measurement Item	Expanded Uncertainty U = <i>k</i> Uc (<i>k</i> =2)
Conducted RF power	0.32 dB
Conducted Spurious Emissions	0.32 dB
Radiated Spurious Emissions	6.34 dB
Conducted Emissions	1.74 dB