



TEST REPORT

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1. Client

- Name : IDRO Co.,Ltd
- Address..... : 11, Jiphyeondong-ro, Sejong-si, Republic of Korea

2. Use of Report..... : FCC Approval

3. Sample Description

- Product Name : UHF RFID Module
- Model Name : IDRO900ME-T5

4. Date of Receipt..... : 2025-08-13

5. Date of Test : 2025-09-19 ~ 2025-11-13

6. Test Method : FCC Part 15 Subpart C 15.247

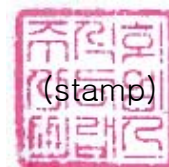
7. Test Results : Refer to the test results

- ※ The results shown in this test report are the results of testing the samples provided.
- ※ This test report is prepared according to the requirements of ISO / IEC 17025.

Affirmation	Tested by Joon-Young, Jeon  (Sign)	Technical Manager Jong-Myoung, Shin  (Sign)
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Nov 20, 2025

EMC Labs Co., Ltd.



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Version

TEST REPORT NO.	DATE	DESCRIPTION
KR0140-RF2511-006	Nov 20, 2025	Initial Issue

1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant Information

Applicant	IDRO Co.,Ltd
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Contact Person	Khyung-Joo, Min
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1.2. Manufacturer Information

Manufacturer	IDRO Co.,Ltd
Manufacturer Address	11, Jiphyeondong-ro, Sejong-si, 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
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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	UHF RFID Module
Model Name	IDRO900ME-T5
FCC ID	XVY-IDRO900ME-T5
Rated Voltage	DC 4.0 V

2.2 Additional Information

Operating Frequency	902.75 MHz ~ 927.25 MHz
Number of channel	50
Modulation Type	A1D
Antenna Type & Gain	Patch Antenna(with Max gain: 8.65 dBiC(=5.65 dBi)
Firmware Version	1.0
Hardware Version	1.0
Test software	E710_Tester

2.3 Test Frequency

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

2.4 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.

2.5 Modifications of EUT

- None



3. Test Summary

Applied	FCC Rule	IC Rule	Test Items	Test Condition	Result
☒	15.203	–	Antenna Requirement	Conducted	C
☒	15.247(a)	–	20 dB Bandwidth		C
☒	–	RSS-GEN (6.7)	Occupied Bandwidth (99%)		C
☒	15.247(a)	RSS-247 (5.1)	Number of Hopping Frequencies		C
☒	15.247(a)	RSS-247 (5.1)	Time of Occupancy (Dwell Time)		C
☒	15.247(a)	RSS-247 (5.1)	Carrier Frequencies Separation		C
☒	15.247(b)	RSS-247 (5.4)	Peak Output Power		C
☒	15.247(d)	RSS-247 (5.5)	Conducted Spurious Emission		C
☒	15.247(d) 15.205 & 15.209	RSS-247 (5.5) RSS-GEN (8.9 & 8.10)	Radiated Spurious Emission	Radiated	C
☐	15.207	RSS-GEN (8.8)	Conducted Emissions	AC Line Conducted	NA ^{Note 2}

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: This product is only using DC Power. So, AC conducted emission test has not been performed.

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	2026.11.05
☐	CONTROLLER	AMWON TECHNOLOGY	TEMI2500	S7800VK191 0707	2026.11.05
☐	PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	MY45304057	2026.11.05
☒	MXG ANALOG SIGNAL GENERATOR	AGILENT	N5183A	MY50141890	2026.11.05
☐	SYSTEM DC POWER SUPPLY	AGILENT	6674A	MY53000118	2026.11.05
☐	VECTOR SIGNAL GENERATOR	ROHDE & SCHWARZ	SMBV100A	257524	2026.11.05
☐	DIRECTIONAL COUPLER	AGILENT	773D	2839A01855	2026.11.05
☒	ATTENUATOR	AGILENT	8493C	73193	2026.11.06
☐	TERMINATION	HEWLETT PACKARD	909D	07492	2026.11.06
☐	POWER DIVIDER	HEWLETT PACKARD	11636A	06916	2026.11.05
☐	SLIDE-AC	DAEKWANG TECH	SV-1023	NONE	2026.11.05
☒	DIGITAL MULTIMETER	HUMANTECHSTORE	15B+	50561541WS	2026.11.05
☐	ATTENUATOR	ACE RF COMM	ATT SMA 20W 20dB 8GHz	A-0820.SM20.2	2026.04.04
☒	DC POWER SUPPLY	AGILENT	E3634A	MY40012120	2026.02.13
☐	USB Peak Power Sensor	Anritsu	MA24408A	12321	2026.11.05
☒	High Pass Filter	WT Microwave INC.	WT-A3314-HS	WT22111804-1	2026.11.05
☐	High Pass Filter	WT Microwave INC.	WT-A1935-HS	WT22111804-2	2026.11.05
☒	SPECTRUM ANALYZER	ROHDE & SCHWARZ	FSU26	200444	2026.02.13
☐	ATTENUATOR	Mini-Circuits	BW-K3-2W44+	2318-1	2026.02.13
☐	ATTENUATOR	Mini-Circuits	BW-K3-2W44+	2318-2	2026.05.08
☒	Balanced Temperature and Humidity Control System	ESPEC CORP.	SH-241	92004650	2026.05.07
☒	ACTIVE LOOP ANTENNA	TESEQ	HLA 6121	55685	2026.12.20
☒	Biconilog ANT	Schwarzbeck	VULB 9160	3260	2026.04.01
☐	Biconilog ANT	Schwarzbeck	VULB9168	902	2026.08.28
☒	Horn ANT	Schwarzbeck	BBHA9120D	974	2025.11.29
☐	Horn ANT	Schwarzbeck	BBHA9120D	1497	2026.01.03
☒	Amplifier	TESTEK	TK-PA18H	200104-L	2026.05.23
☒	Horn ANT	Schwarzbeck	BBHA9170	01188	2026.03.20
☐	Horn ANT	Schwarzbeck	BBHA9170	01189	2026.03.20
☒	AMPLIFIER	TESTEK	TK-PA1840H	220105-L	2026.03.17
☒	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW44	101952	2026.03.17
☐	Test Receiver	ROHDE & SCHWARZ	ESR7	101616	2026.06.25
☐	TWO LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	102596	2026.04.14
☐	PULSE LIMITER	lignex1	EPL-30	NONE	2026.01.04

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 5.65 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 on any frequency 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.

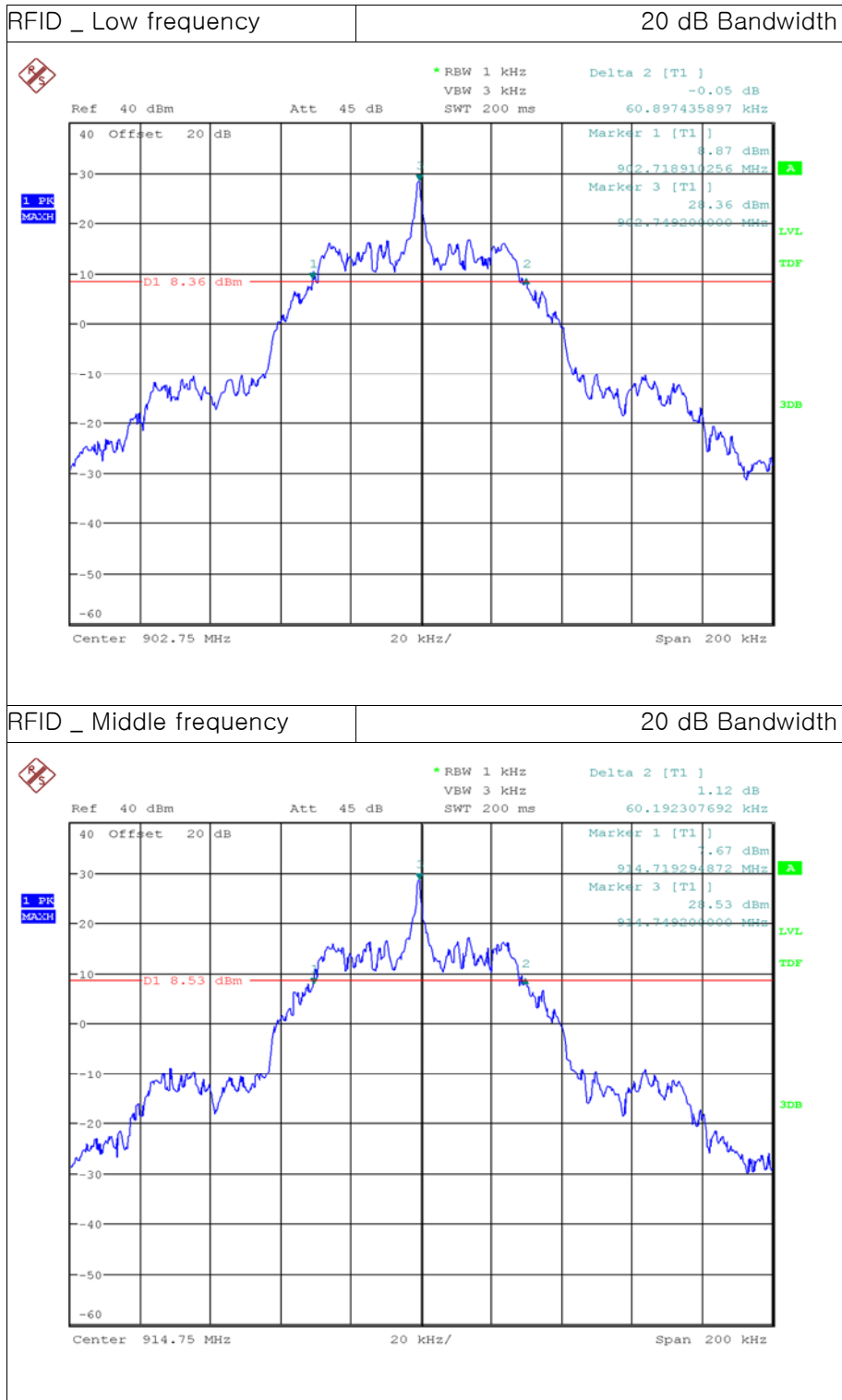
6.3 Test Procedure

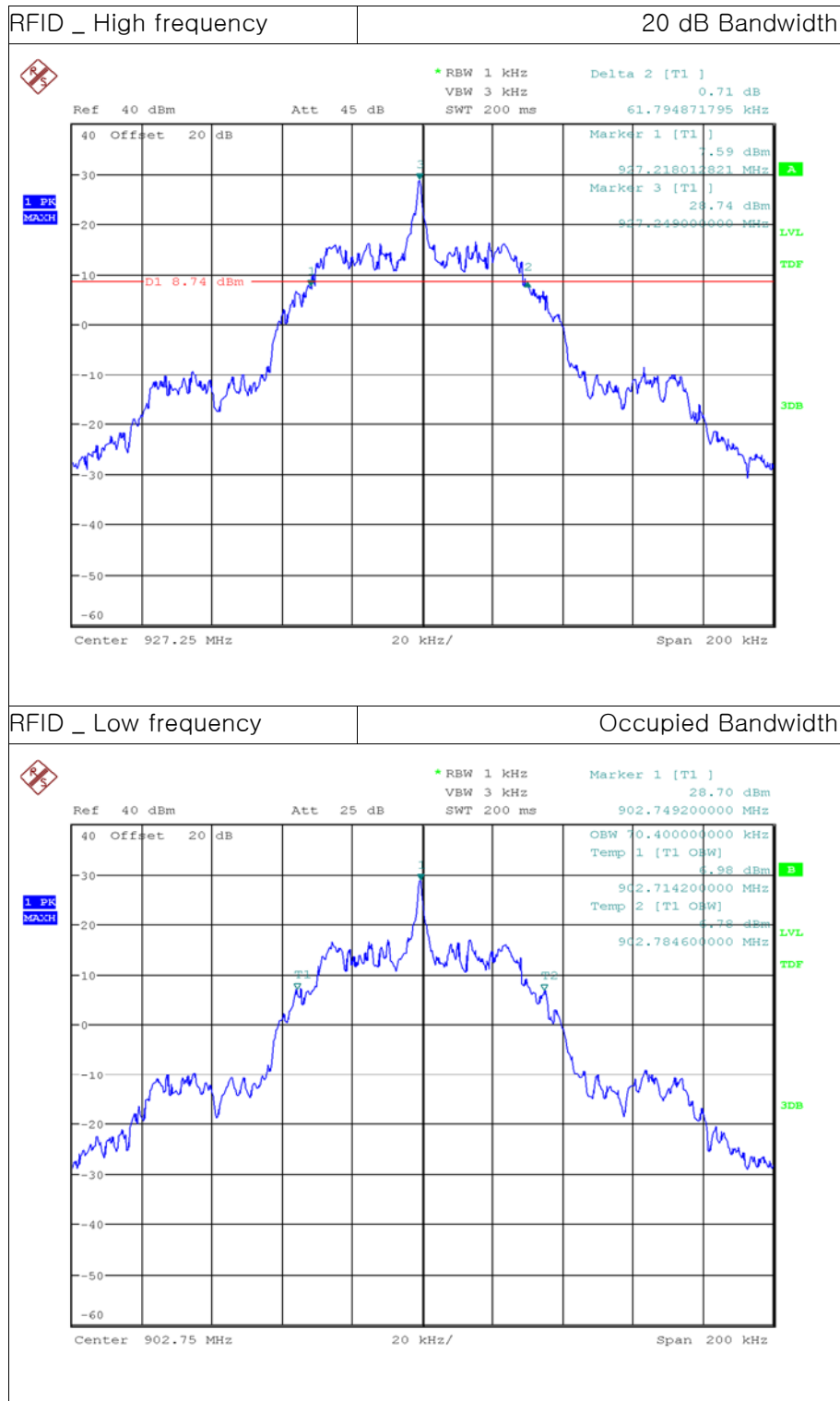
1. The 20 dB bandwidth & Occupied bandwidth were measured with a spectrum analyzer connected to RF antenna Connector (conducted measurement) while EUT was operating in transmit mode. The analyzer center frequency was set to the EUT carrier frequency, using the analyzer.
2. The bandwidth of the fundamental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

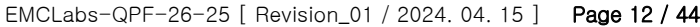
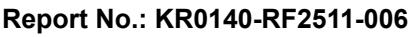
6.4 Test Result

Test Mode	Test Frequency	20 dB Bandwidth (kHz)	Occupied Bandwidth (kHz)
RFID	Low	60.897	70.400
	Middle	60.192	70.400
	High	61.795	70.600

6.5 Test Plot







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 ~ 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 $\geq$ RBW

Sweep = Auto

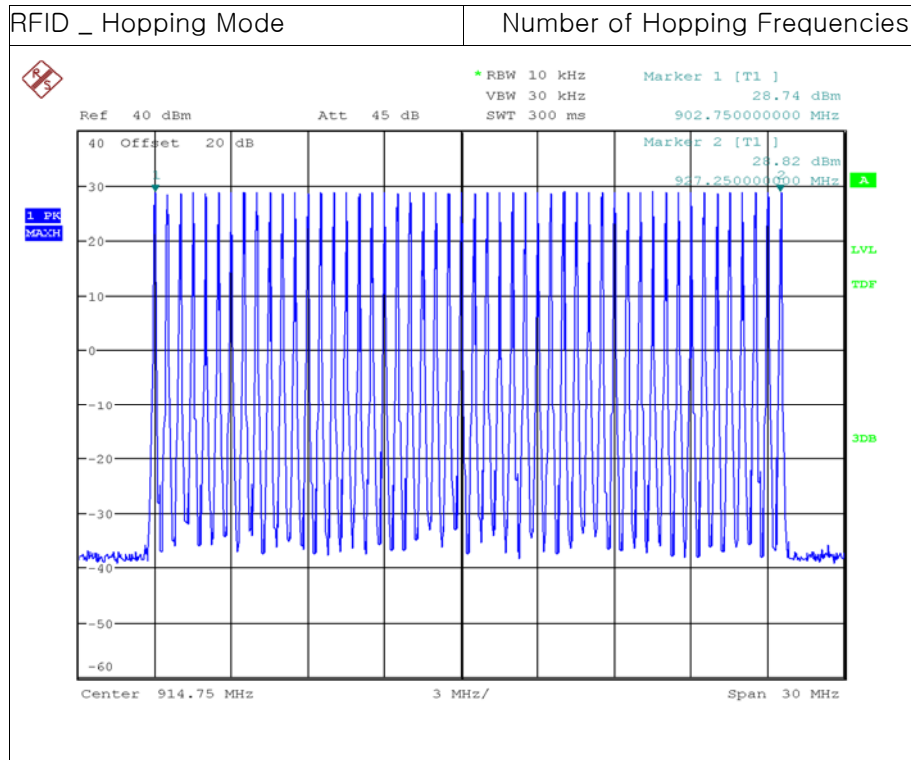
Detector = Peak

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 on any frequency 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 $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$,
where T is the expected dwell time per channel)

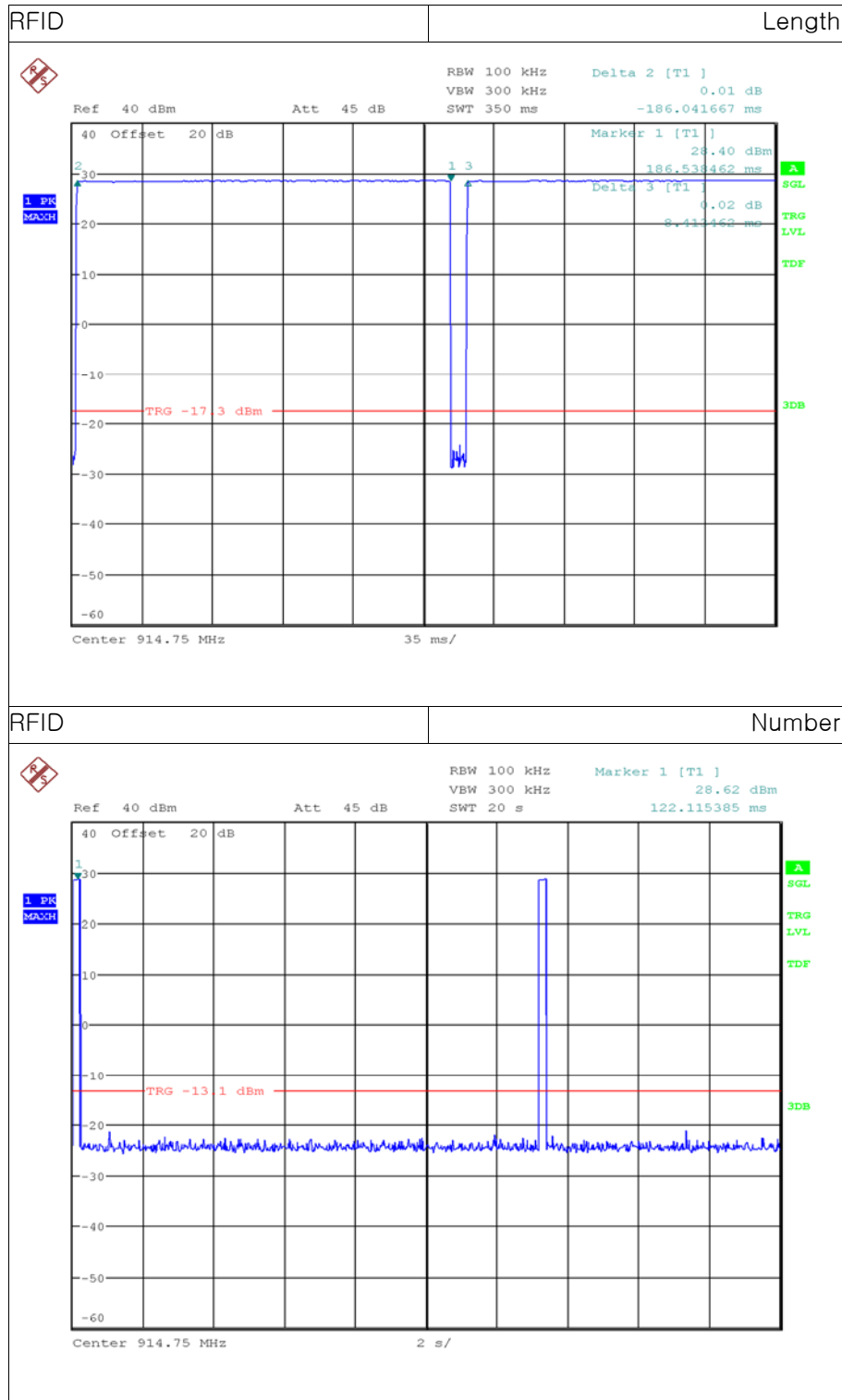
VBW $\geq$ RBW Detector = Peak

Trace = Max hold

8.4 Test Result

Test Frequency (MHz)	Length (ms)	Number	Dwell Time (ms)
914.75	186.04	2	372.08

8.5 Test Plot



9. Carrier Frequencies Separation

9.1 Test Setup

Refer to the APPENDIX I.

9.2 Limit

Limit : ≥ 25 kHz or ≥ 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:

Span = wide enough to capture the peaks of two adjacent channels

RBW = Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

VBW $\geq$ RBW

Sweep = Auto

Detector = Peak

Trace = Max hold

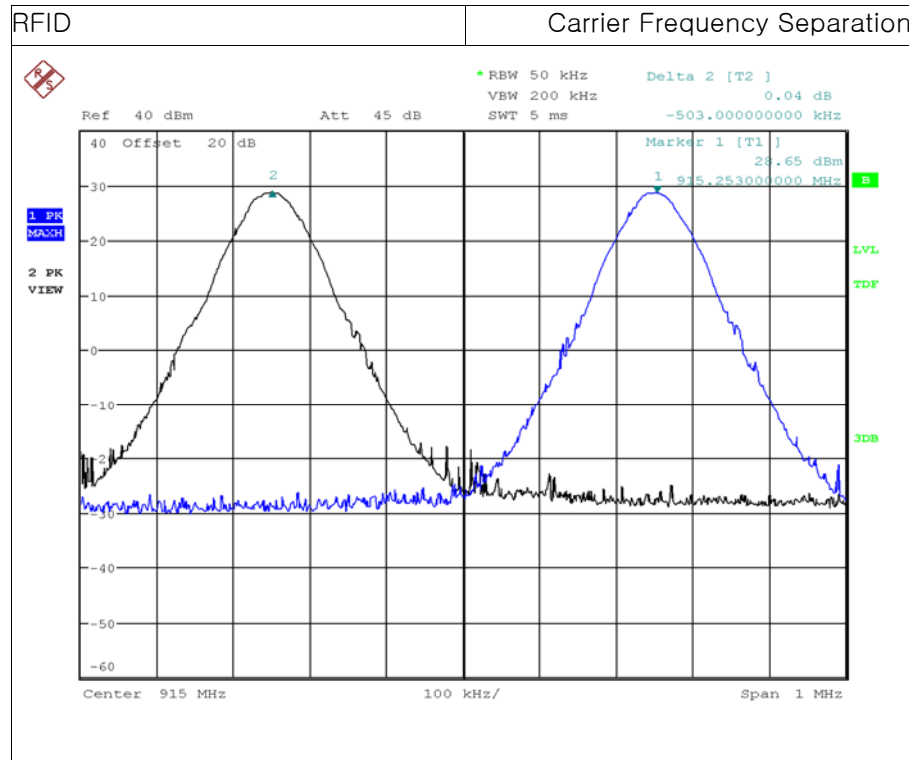
9.4 Test Result

Test Mode	Carrier Frequencies Separation (kHz)	Min. Limit (kHz)
RFID	503.000	70.40

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



9.5 Test Plot



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.

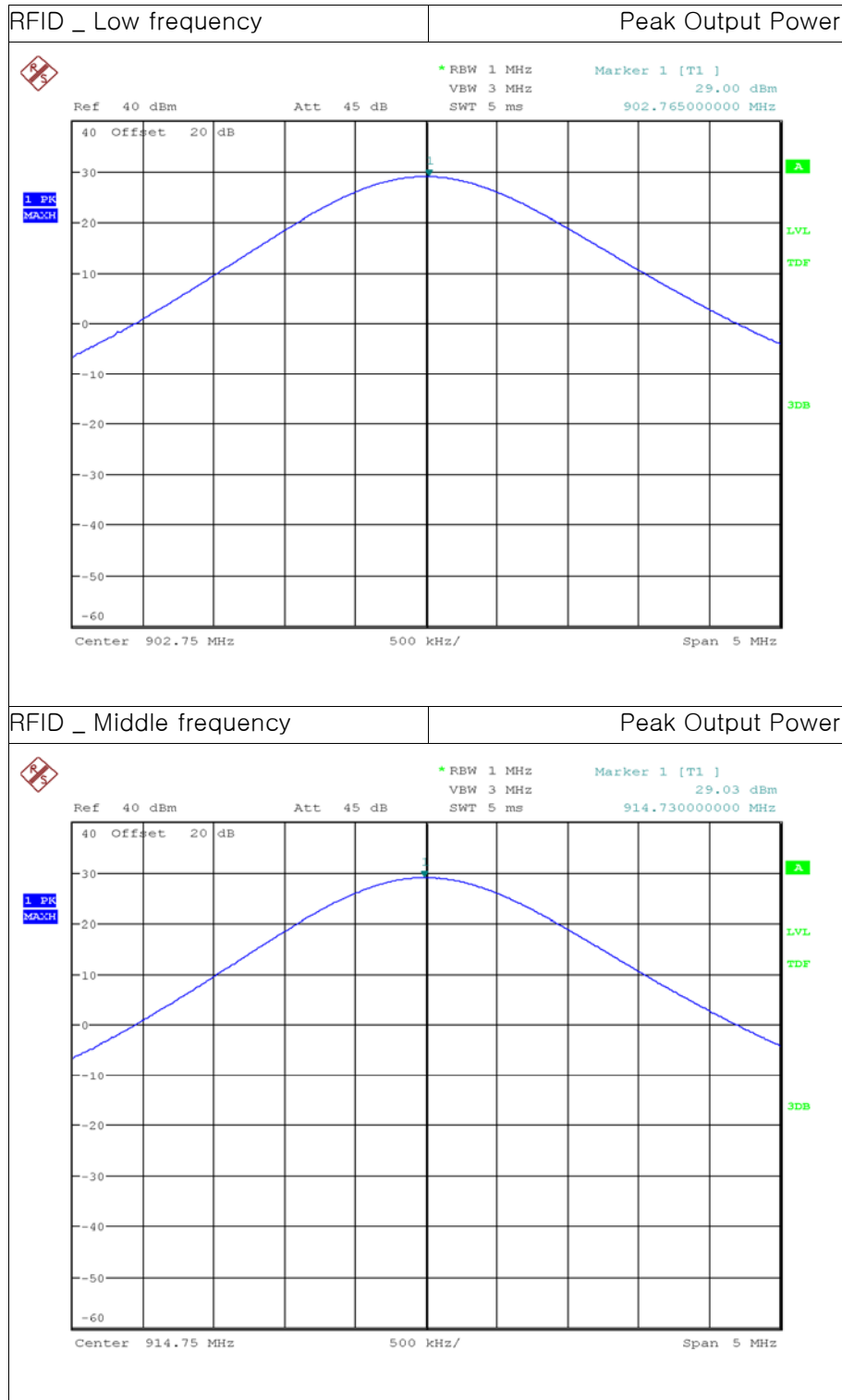
10.3 Test Procedure

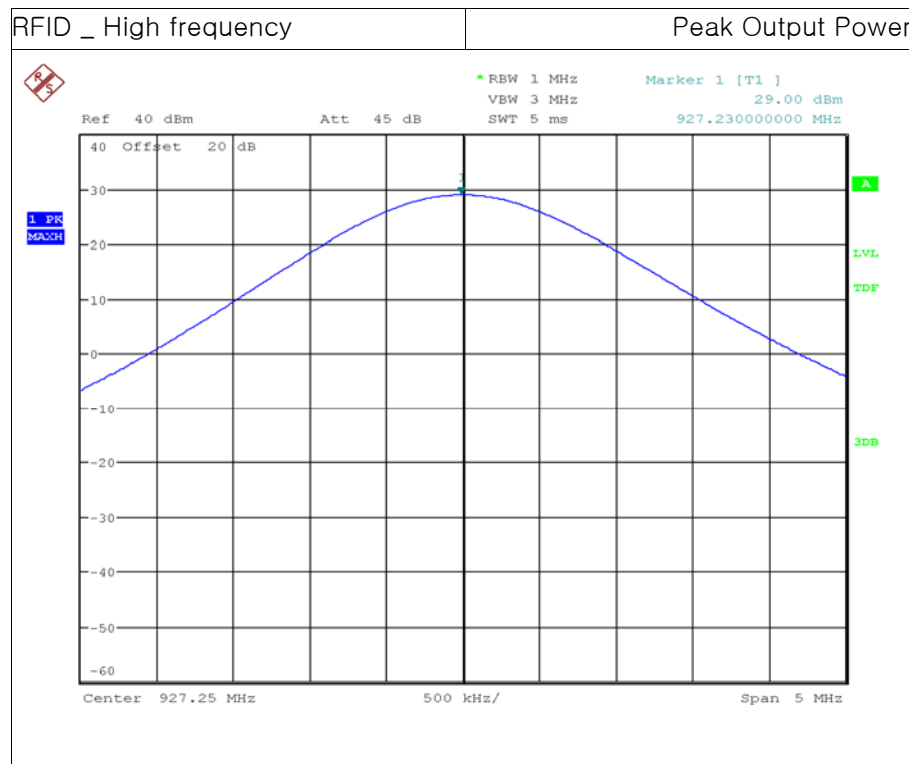
1. The RF output power was measured with a spectrum analyzer connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency, a spectrum analyzer was used to record the shape of the transmit signal.
2. The peak output power of 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 $\geq$ RBW
 - Sweep = Auto
 - Detector function = Peak
 - Trace = Max Hold

10.4 Test Result

Test Mode	Test Frequency	Peak Output Power	
		dBm	mW
RFID	Low	29.00	794.33
	Middle	29.03	799.83
	High	29.00	794.33

10.5 Test Plot





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 radiator shall not exceed the field strength levels specified 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

** 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.



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

MHz	MHz	MHz	GHz
0.009 ~ 0.110	16.42 ~ 16.423	399.90 ~ 410	4.5 ~ 5.15
0.495 ~ 0.505	16.69475 ~ 16.69525	608 ~ 614	5.35 ~ 5.46
2.1735 ~ 2.1905	16.80425 ~ 16.80475	960 ~ 1240	7.25 ~ 7.75
4.125 ~ 4.128	25.5 ~ 25.67	1300 ~ 1427	8.025 ~ 8.5
4.17725 ~ 4.17775	37.5 ~ 38.	1435 ~ 1626.5	9.0 ~ 9.2
4.20725 ~ 4.20775	25 73 ~ 74.6	1645.5 ~ 1646.5	9.3 ~ 9.5
4.17725 ~ 4.17775	74.8 ~ 75.2	1660 ~ 1710	10.6 ~ 12.7
6.215 ~ 6.218	108 ~ 121.94	1718.8 ~ 1722.2	13.25 ~ 13.4
6.26775 ~ 6.26825	149.9 ~ 150.05	2200 ~ 2300	14.47 ~ 14.5
6.31175 ~ 6.31225	156.52475 ~ 156.52525	2310 ~ 2390	15.35 ~ 16.2
8.291 ~ 8.294	156.7 ~ 156.9	2483.5 ~ 2500	17.7 ~ 21.4
8.362 ~ 8.366	162.0125 ~ 167.17	2690 ~ 2900	22.01 ~ 23.12
8.37625 ~ 8.38675	3345.8 ~ 3358	3260 ~ 3267	23.6 ~ 24.0
8.41425 ~ 8.41475	3600 ~ 4400	3332 ~ 3339	31.2 ~ 31.8
12.51975 ~ 12.52025	3345.8 ~ 3358	240 ~ 285	36.43 ~ 36.5
12.57675 ~ 12.57725	3600 ~ 4400	322 ~ 335.4	Above 38.6
13.36 ~ 13.41			

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.
2. 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.
5. 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

1. Frequency Range: Below 1 GHz
RBW = 100 or 120 kHz, VBW = 3 x RBW, Detector = Peak or Quasi Peak
2. 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 $\geq 1/T$, 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.
2. The reference level of the fundamental frequency was measured with the spectrumanalyzer using
RBW = 100 kHz, VBW = 300 kHz.
3. 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)

11.5 Test Result

9 kHz ~ 10 GHz Data

● Low frequency

Frequency (MHz)	Reading		Pol.	T.F (dB)	DCCF (dB)	Limits		Result		Margin	
	(dBuV/m)					(dBuV/m)		(dBuV/m)		(dB)	
	AV / Peak					AV / Peak		AV / Peak		AV / Peak	
2 708.20	43.79	49.35	H	−8.33	N/A	54.0	74.0	35.5	41.0	18.5	33.0
3 611.05	46.56	51.08	V	−5.56	N/A	54.0	74.0	41.0	45.5	13.0	28.5

● Middle frequency

Frequency (MHz)	Reading		Pol.	T.F (dB)	DCCF (dB)	Limits		Result		Margin	
	(dBuV/m)					(dBuV/m)	(dBuV/m)	(dB)			
	AV / Peak					AV / Peak	AV / Peak	AV / Peak			
2 744.18	42.36	48.73	H	−8.31	N/A	54.0	74.0	34.1	40.4	20.0	33.6
3 659.04	50.34	54.66	V	−5.39	N/A	54.0	74.0	45.0	49.3	9.1	24.7

● High frequency

Frequency (MHz)	Reading		Pol.	T.F (dB)	DCCF (dB)	Limits		Result		Margin	
	(dBuV/m)					(dBuV/m)		(dBuV/m)		(dB)	
	AV / Peak					AV / Peak		AV / Peak		AV / Peak	
2 781.69	44.53	50.02	H	-7.91	N/A	54.0	74.0	36.6	42.1	17.4	31.9
3 708.94	53.16	57.06	V	-5.35	N/A	54.0	74.0	47.8	51.7	6.2	22.3

Note 1: The radiated emissions were investigated 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.

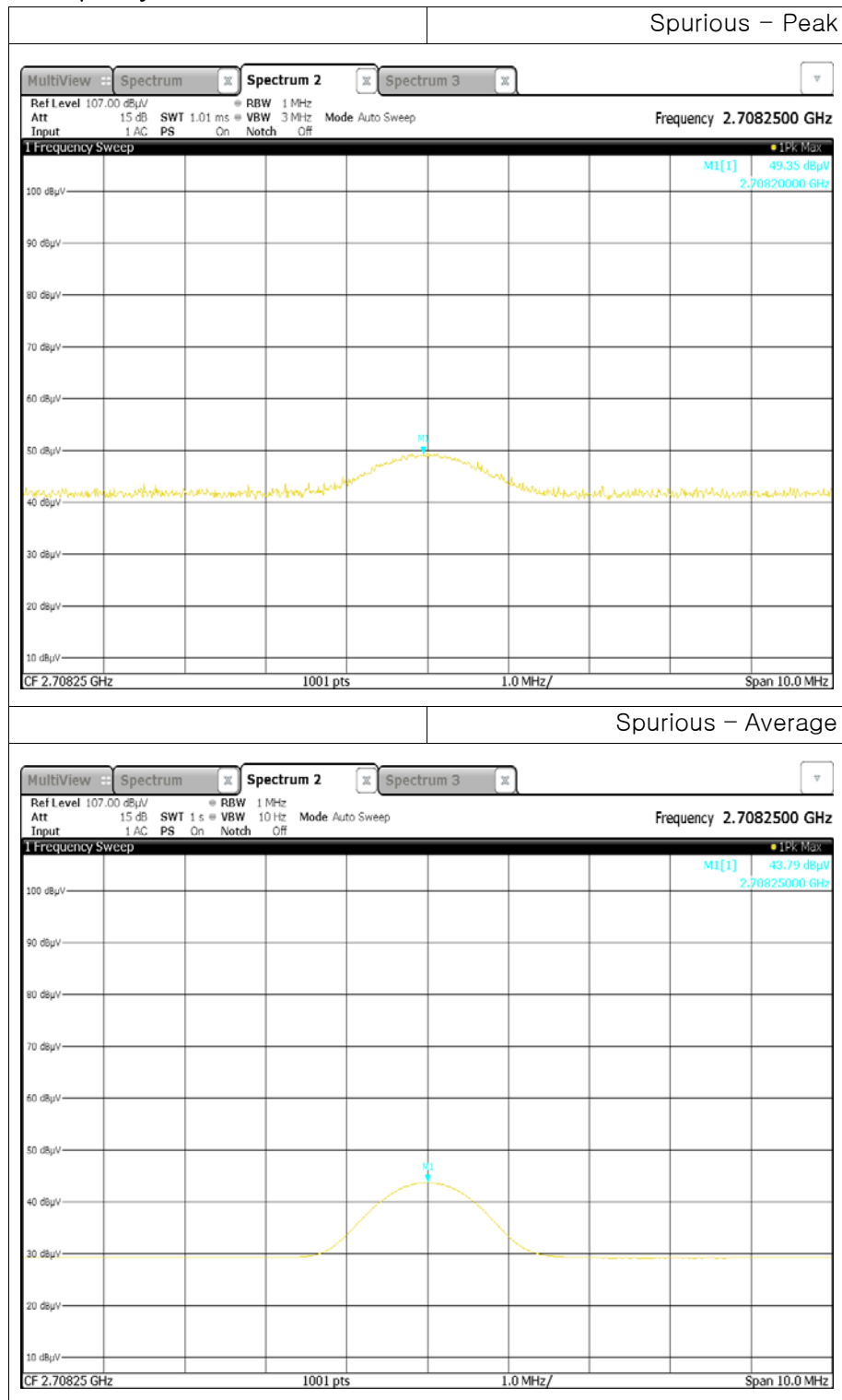
Margin = Limit - Result / Peak Result = Peak Reading + TF / Average Result = Average Reading + TF

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

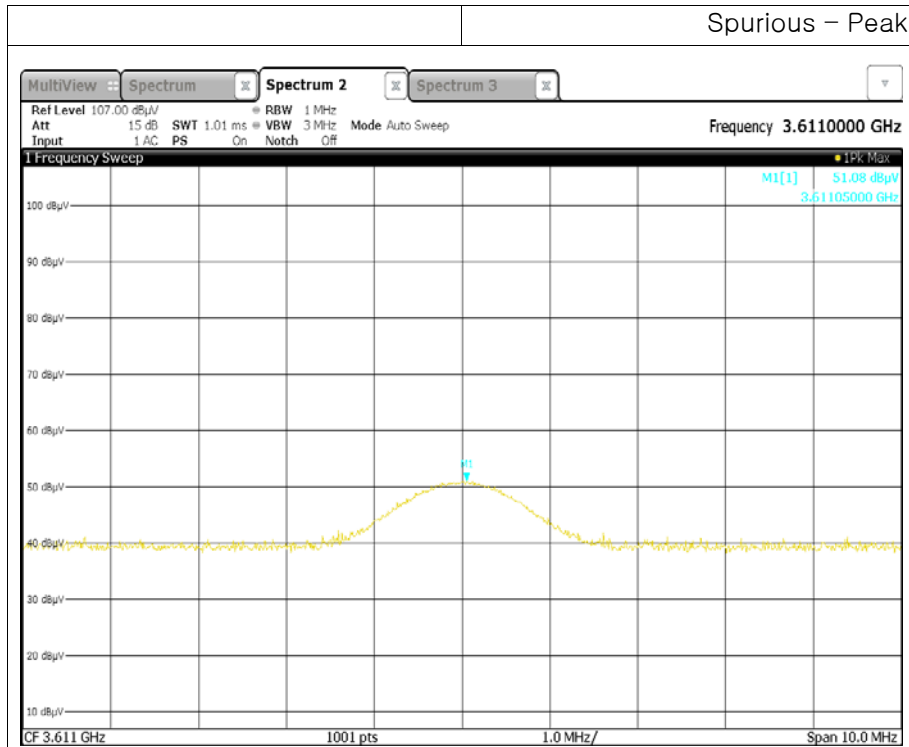
Distance Factor = $20\log(\text{applied distance}/\text{required distance}) = 20\log(3.75\text{m}/3\text{m}) = 1.94$

11.6 Test Plot for Radiated Spurious Emission

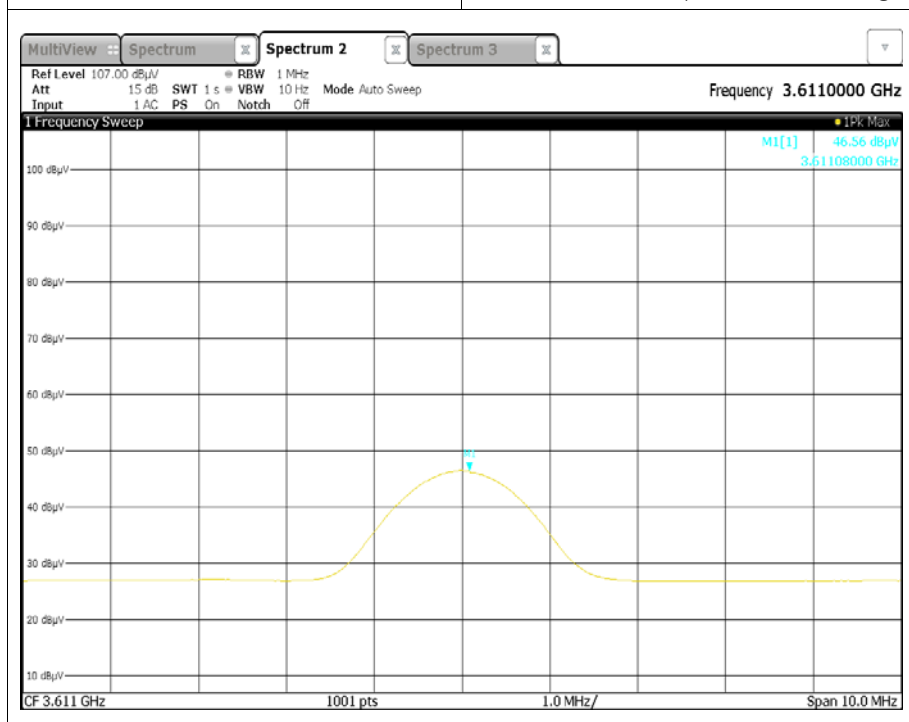
- RFID _ Low frequency



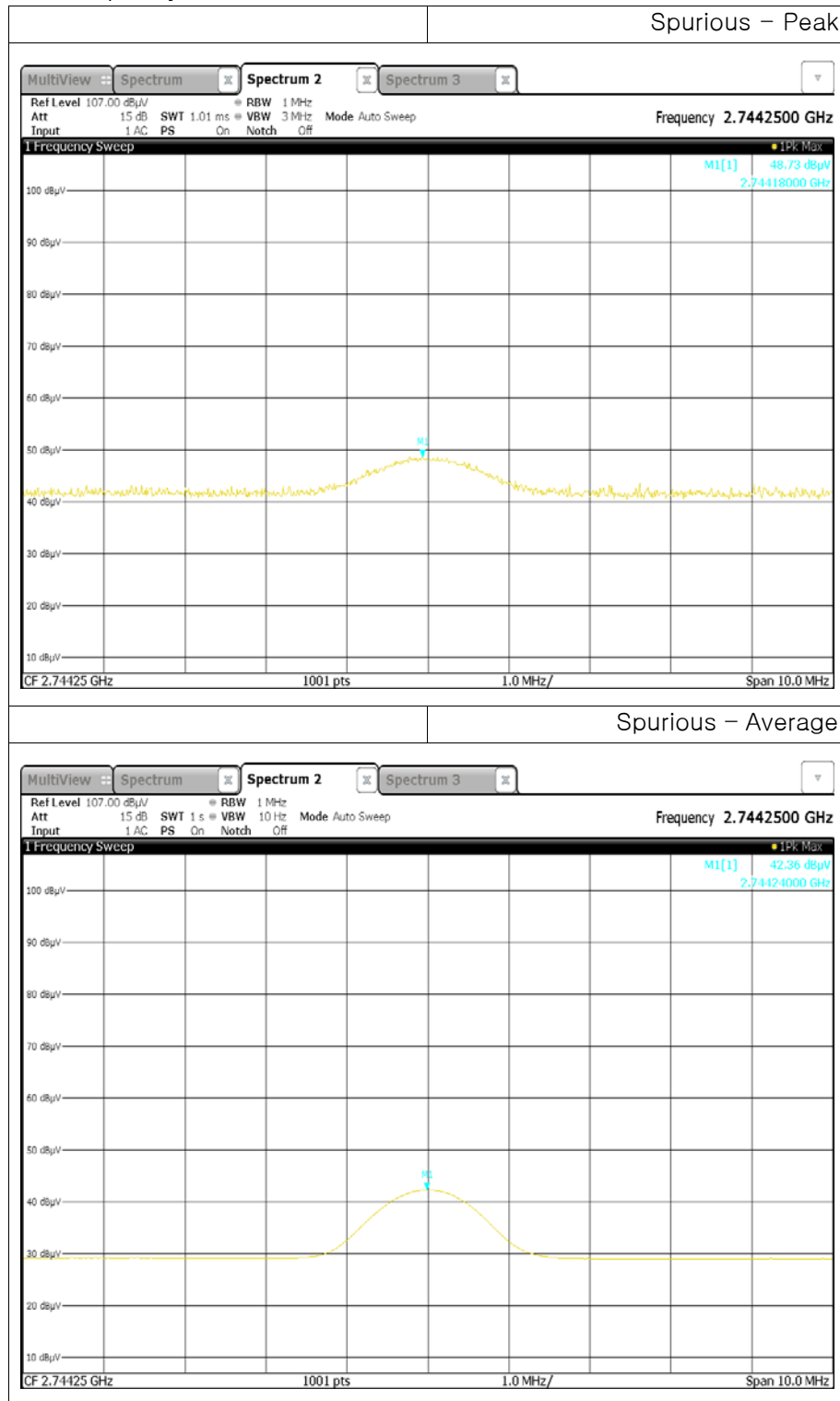
Spurious – Peak



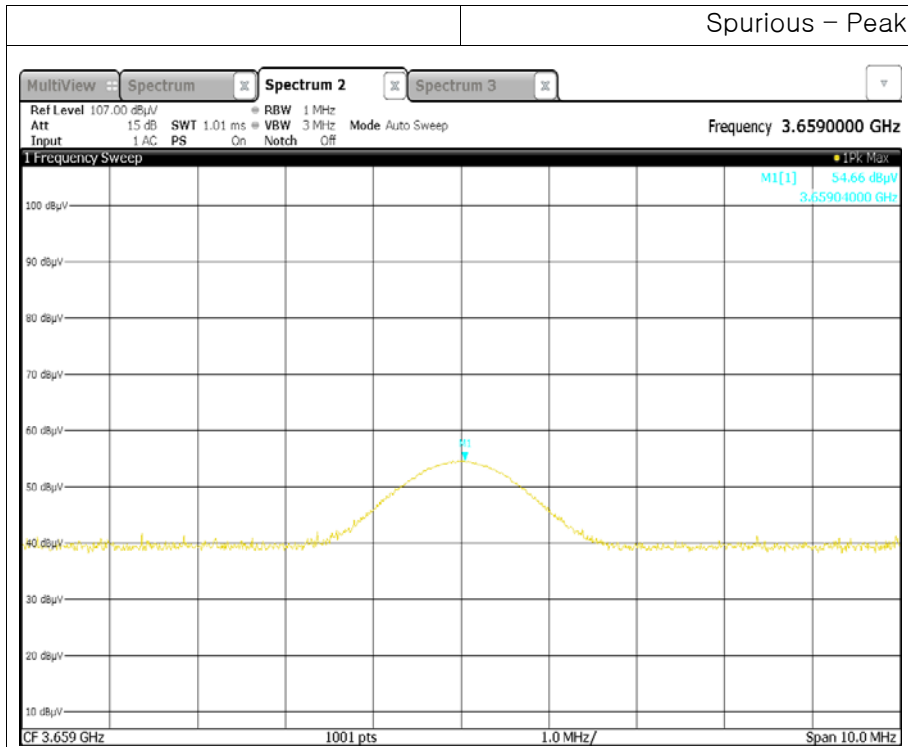
Spurious – Average



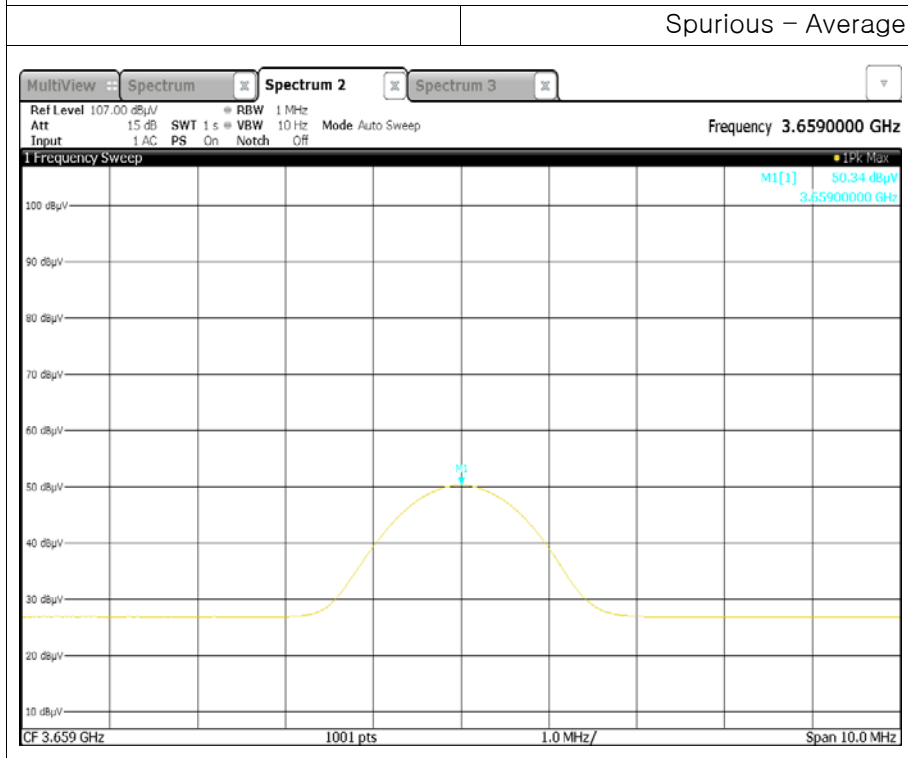
- RFID _ Middle frequency



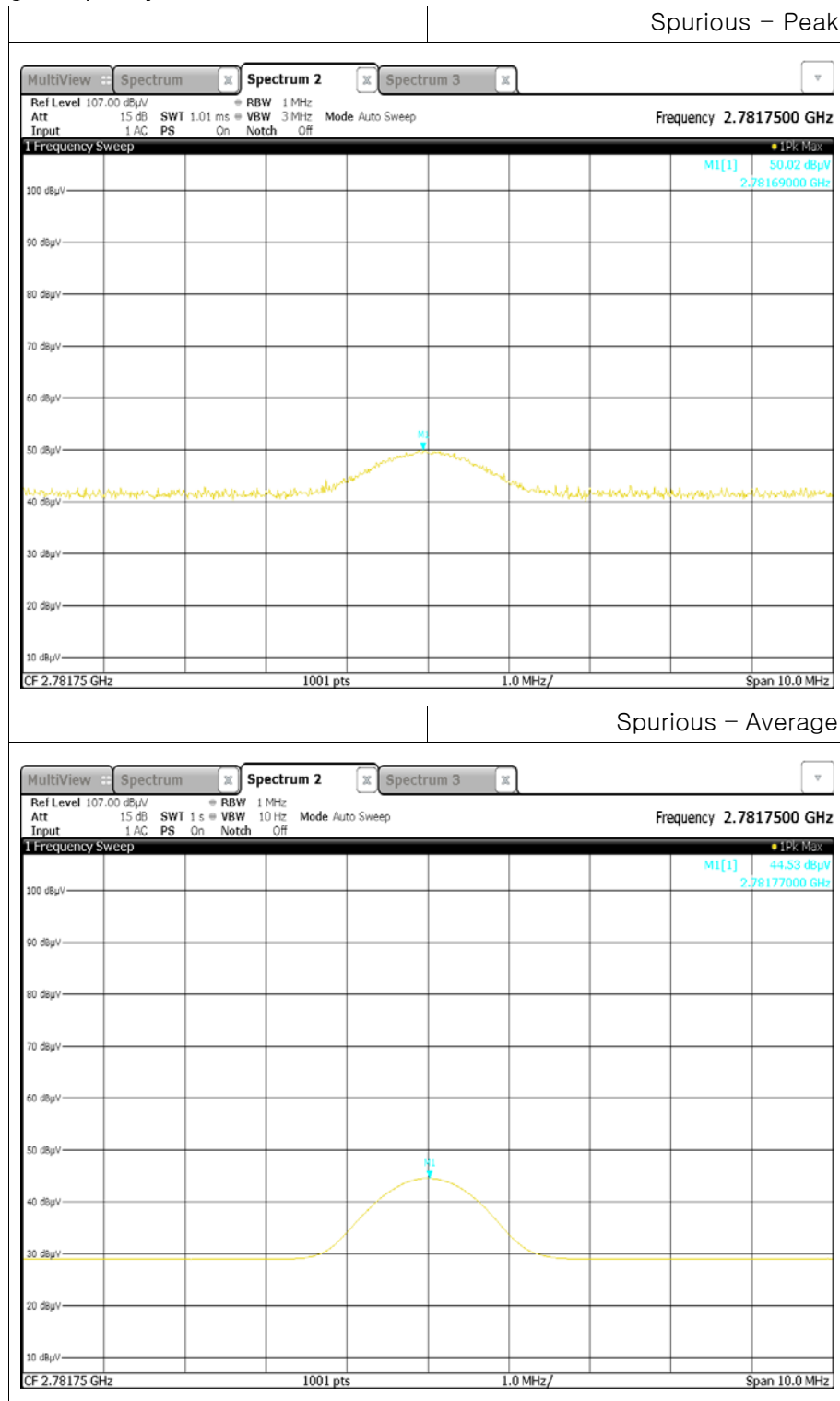
Spurious – Peak



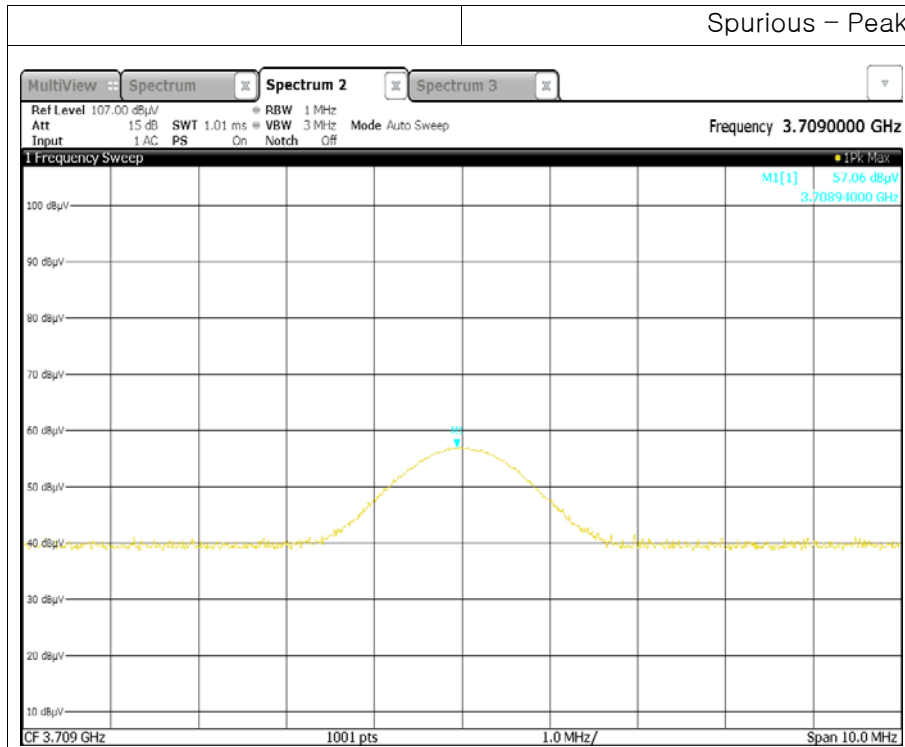
Spurious – Average



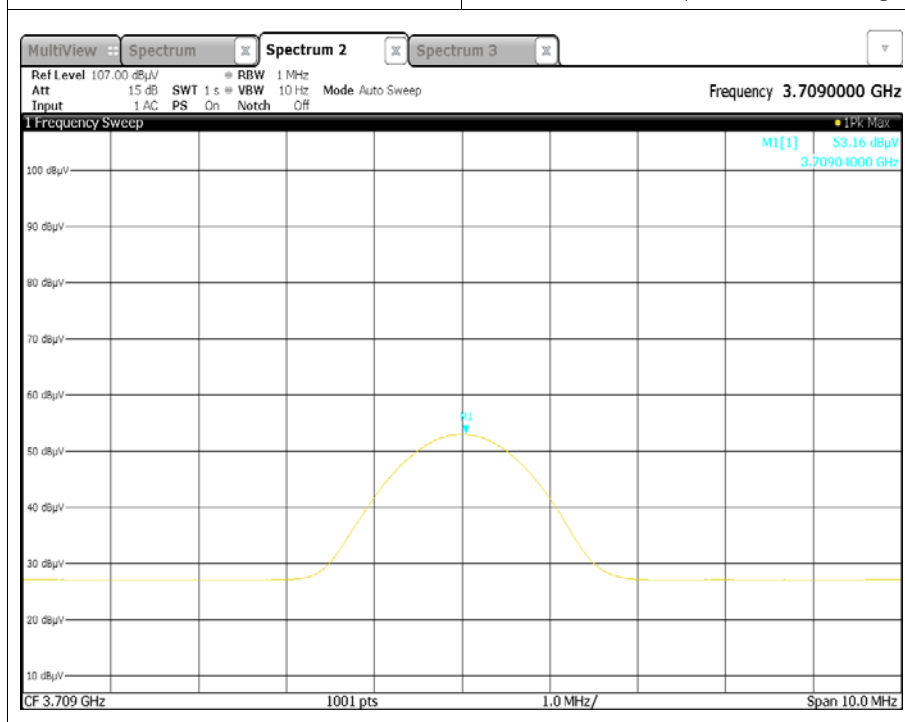
- RFID _ High frequency



Spurious – Peak



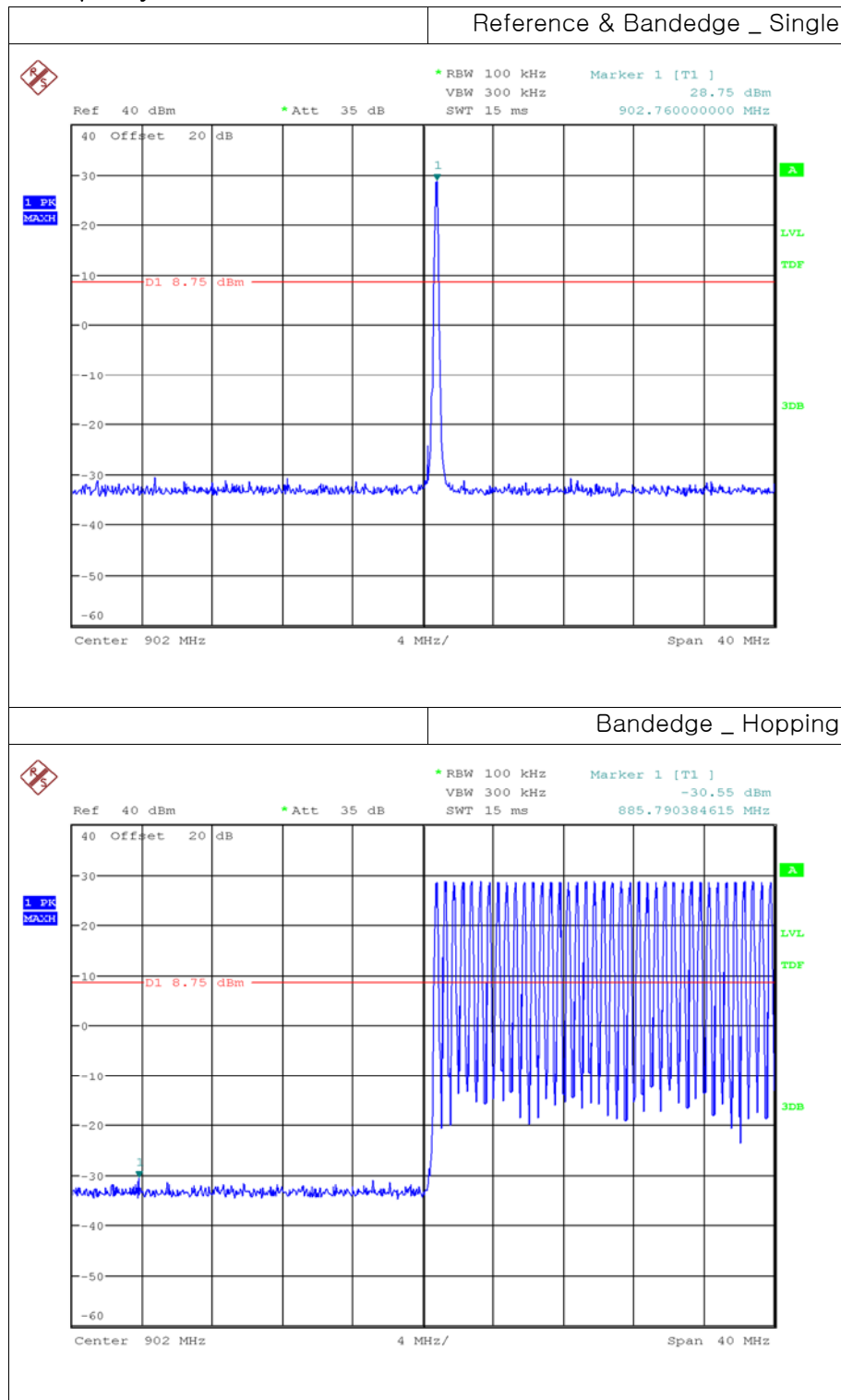
Spurious – Average

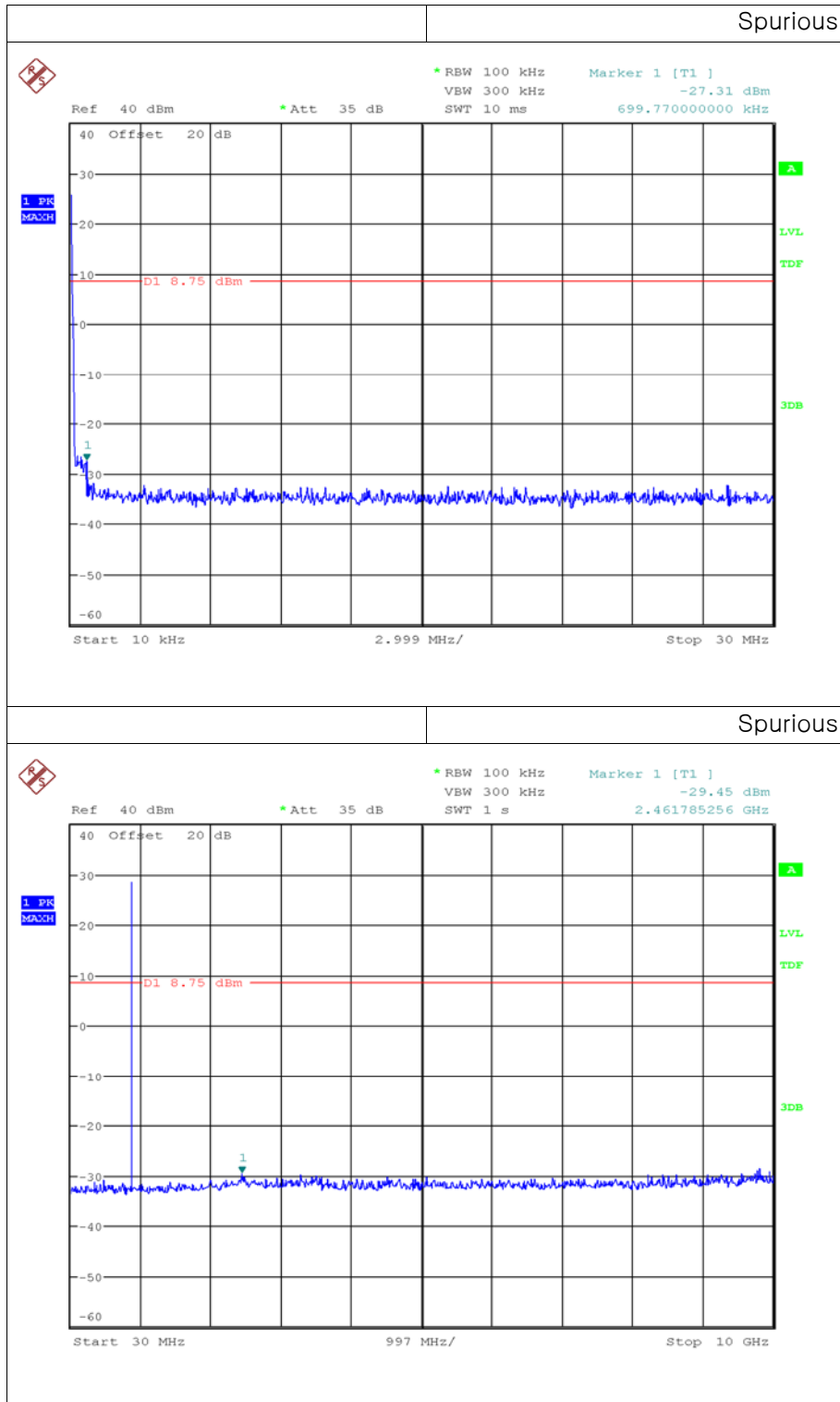




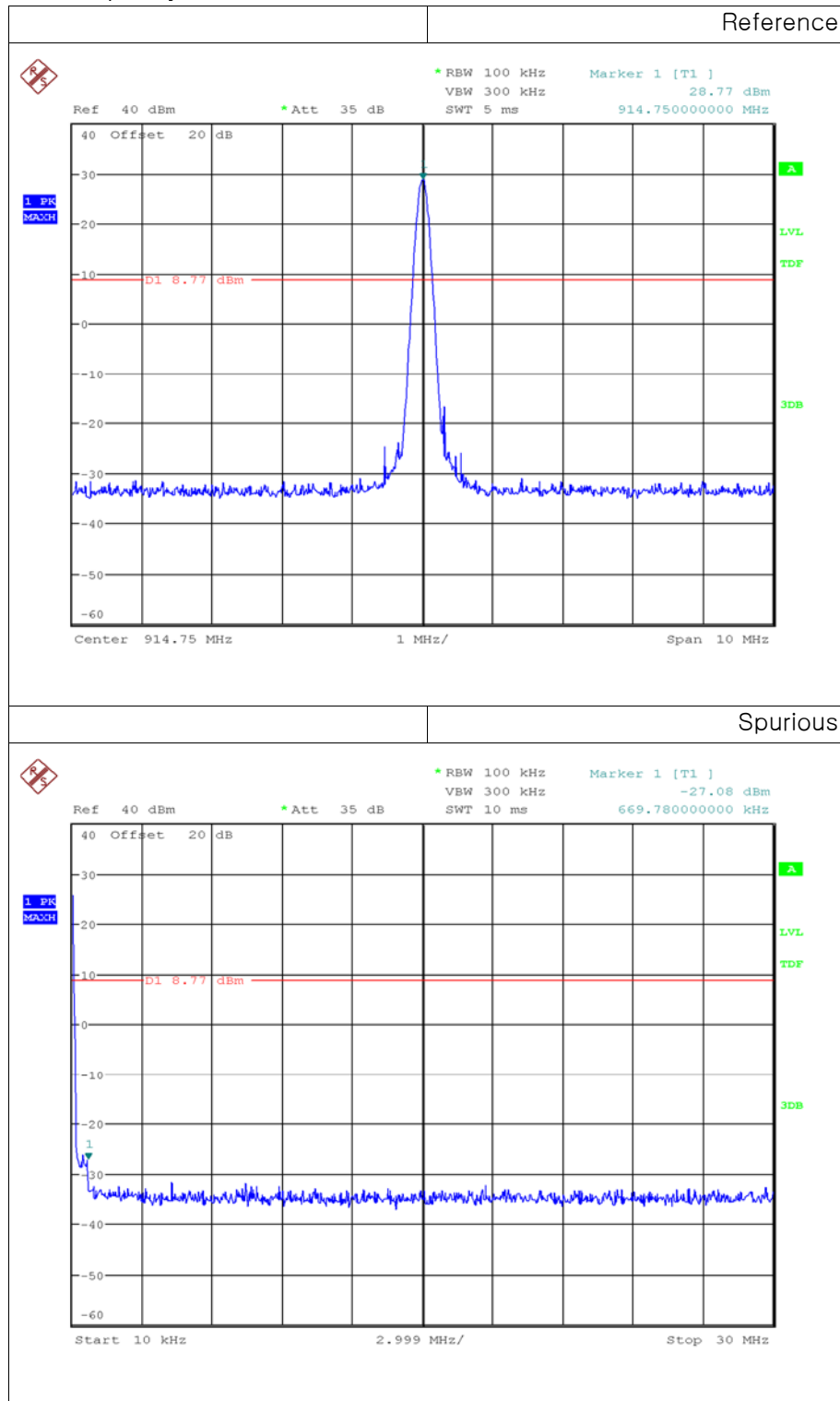
11.7 Test Plot for Conducted Spurious Emission

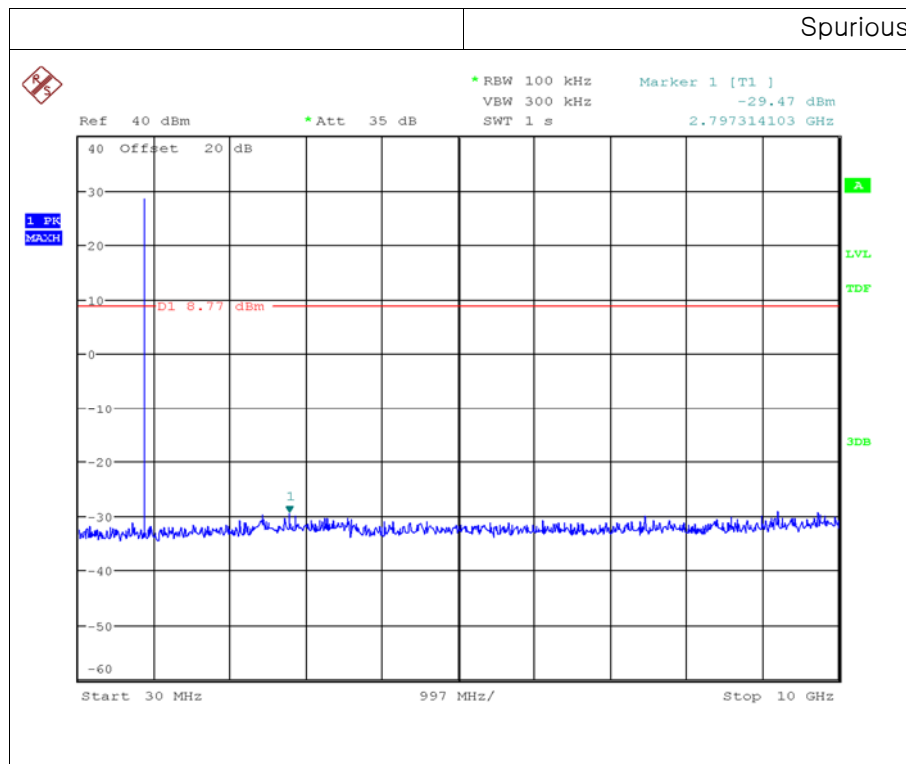
- RFID _ Low frequency



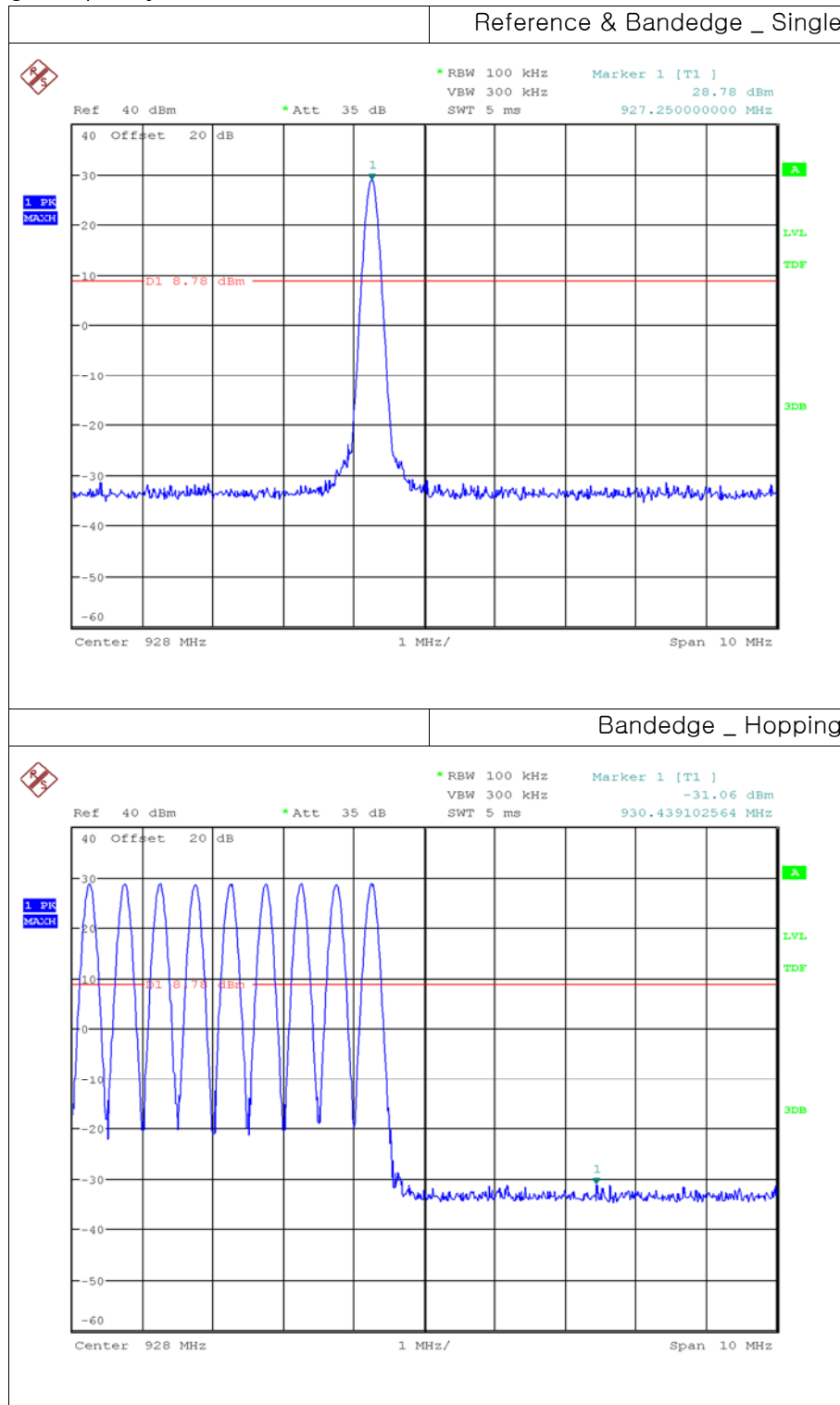


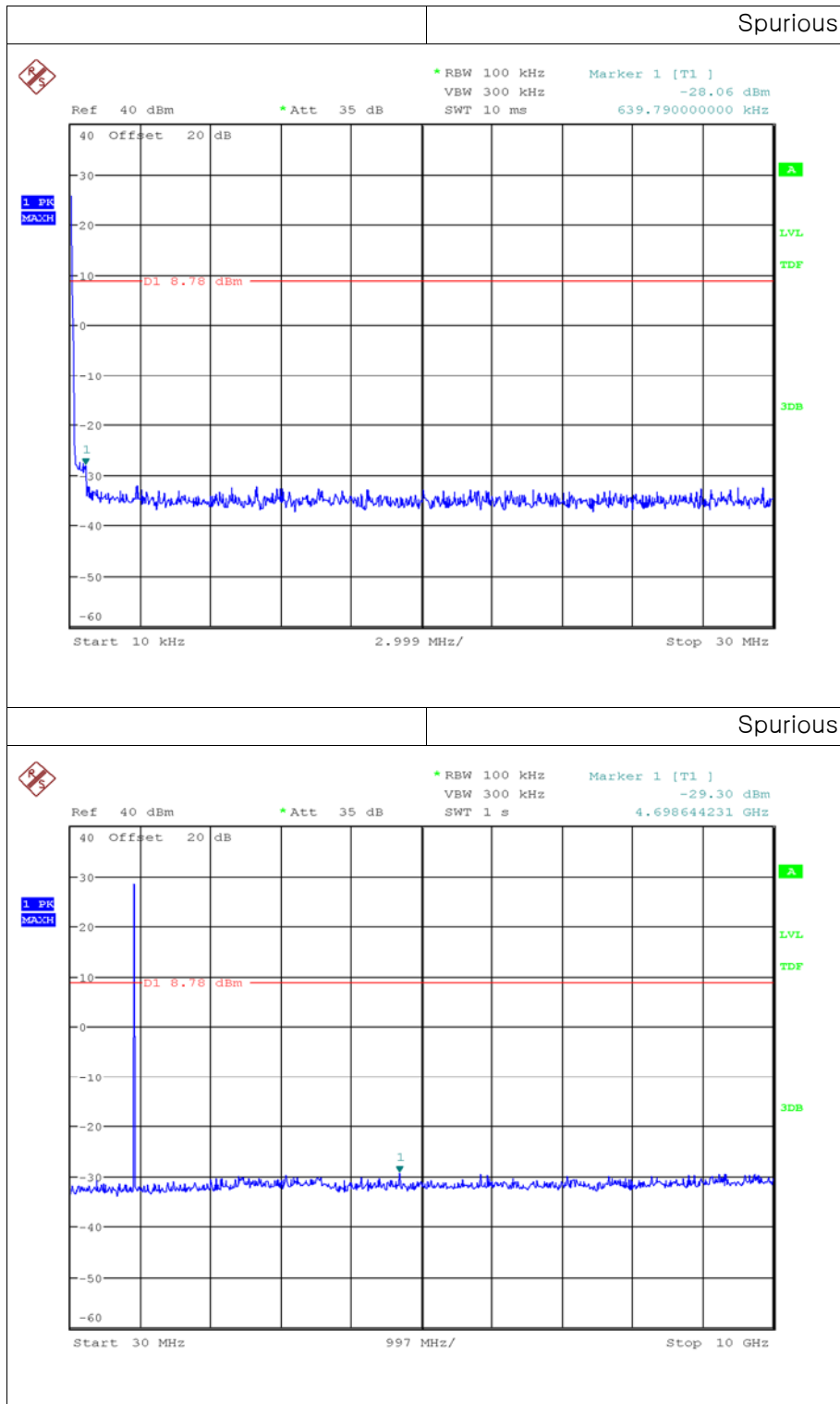
● RFID _ Middle frequency





● RFID _ High frequency





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 μ H/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.

Frequency Range (MHz)	Conducted Limit (dBuV)	
	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.

1. The test procedure is performed in a 6.5 m $\times$ 3.5 m $\times$ 3.5 m (L $\times$ W $\times$ H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) $\times$ 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.
2. 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.

12.4 Test Result

Not Applicable

(This product is only using DC Power. So, AC conducted emission test has not been performed.)

APPENDIX I

TEST SETUP



● Radiated Measurement

below 30 MHz	
below 1 GHz	
above 1 GHz	

● Conducted Measurement

Conducted	
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APPENDIX II

UNCERTAINTY

Measurement Item	Expanded Uncertainty $U = kU_c (k=2)$
Conducted RF power	0.34 dB
Conducted Spurious Emissions	0.34 dB
Radiated Spurious Emissions	5.82 dB
Conducted Emissions	2.00 dB