



**KES Co., Ltd.**

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 www.kes.co.kr

Report No.:  
 KES-RF1-22T0057  
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**Test results (Above 1 000 MHz)**

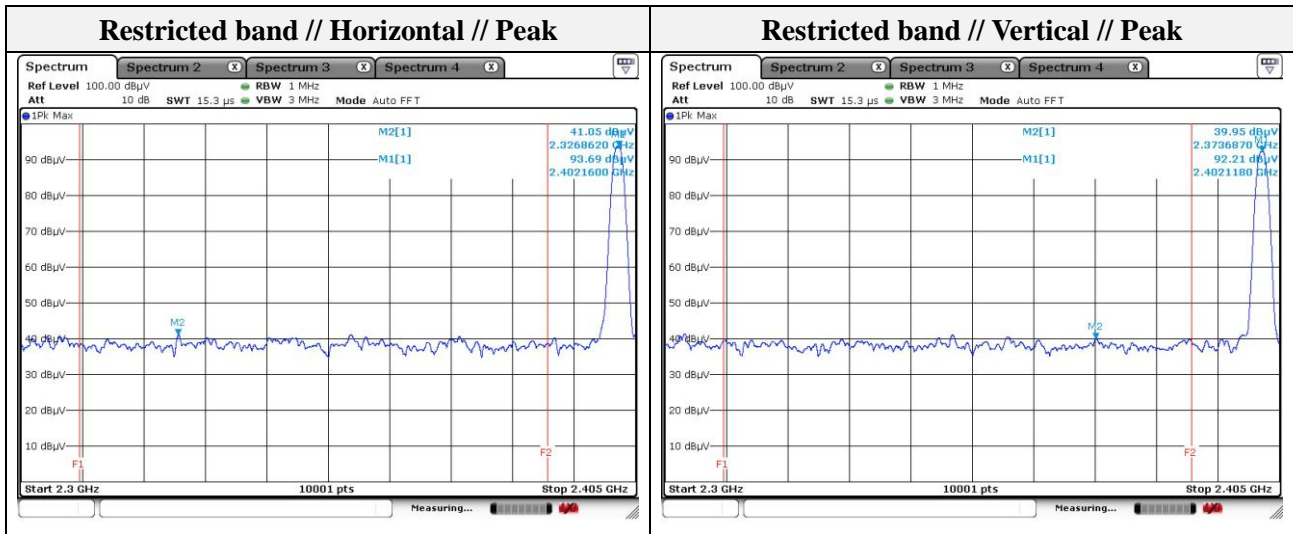
Mode: LE 1 Mbps(Left unit)  
 Distance of measurement: 3 meter  
 Channel: 00

**- Spurious**

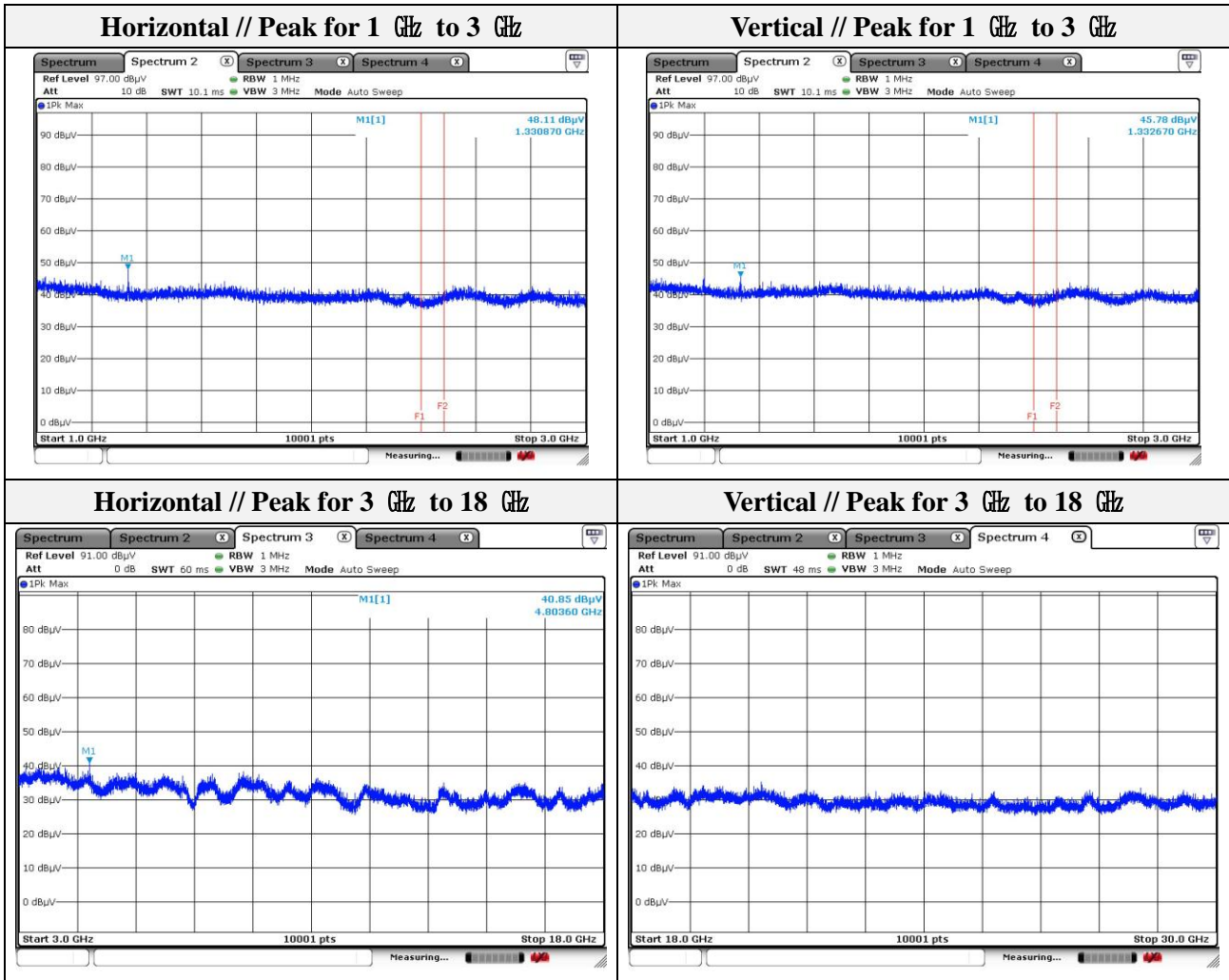
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 330.87	48.11	Peak	H	-7.48	-	40.63	74.00	33.37
1 332.67	45.78	Peak	V	-7.47	-	38.31	74.00	35.69
4 803.60	40.85	Peak	H	7.10	-	47.95	74.00	26.05

**- Band edge**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 326.86	41.05	Peak	H	-0.88	-	40.17	74.00	33.83
2 373.69	39.95	Peak	V	-0.84	-	39.11	74.00	34.89



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 The authenticity of the test report, contact shchoi@kes.co.kr



Note.

1. Average test would be performed if the peak result were greater than the average limit.

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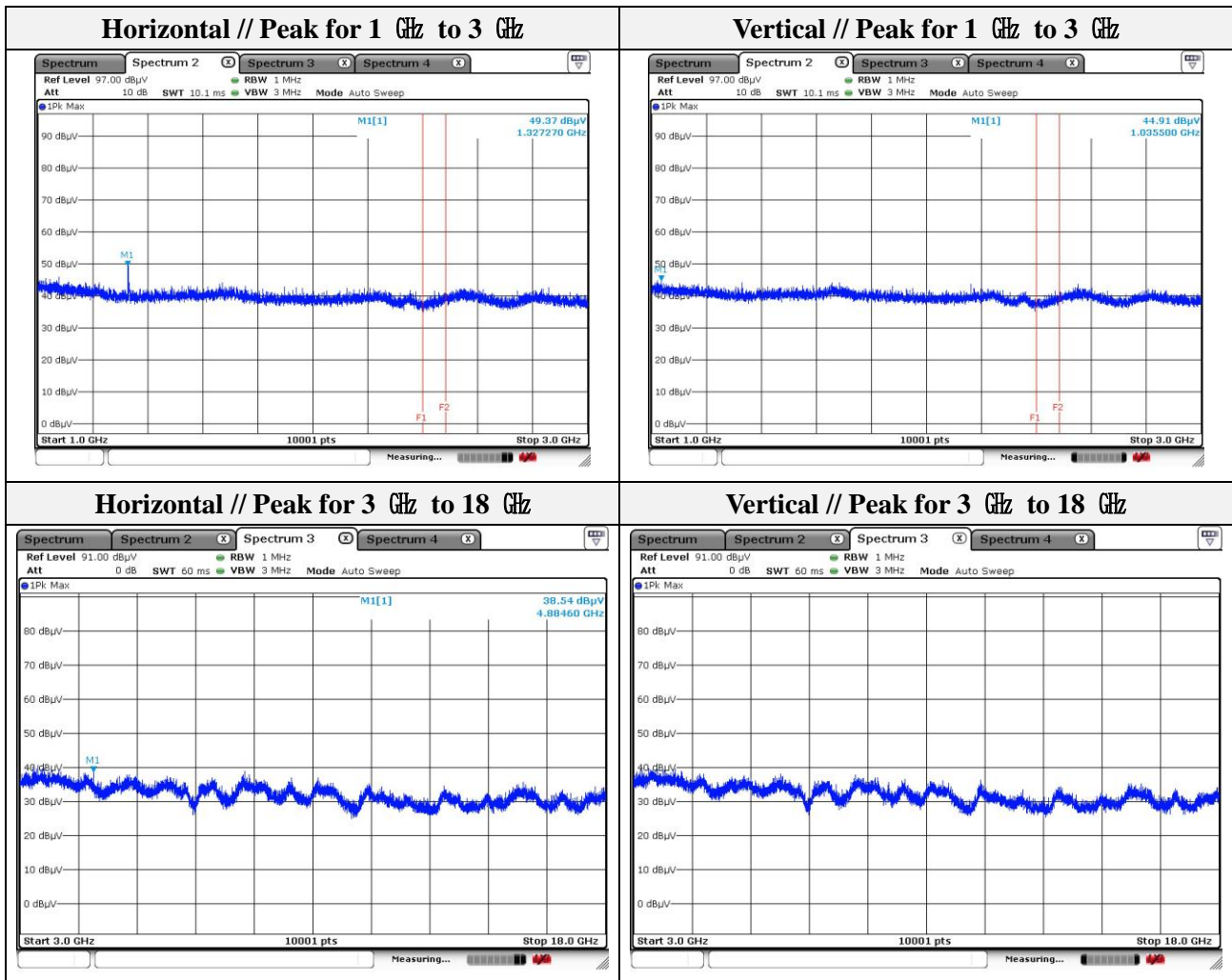
3701, 40, Simin-daero 365beon-gil,  
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Mode: LE 1 Mbps(Left unit)  
 Distance of measurement: 3 meter  
 Channel: 20

- **Spurious**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1 035.50	44.91	Peak	V	-9.24	-	35.67	74.00	38.33
1 327.27	49.37	Peak	H	-7.50	-	41.87	74.00	32.13
4 884.60	38.54	Peak	H	7.72	-	46.26	74.00	27.74



Note.

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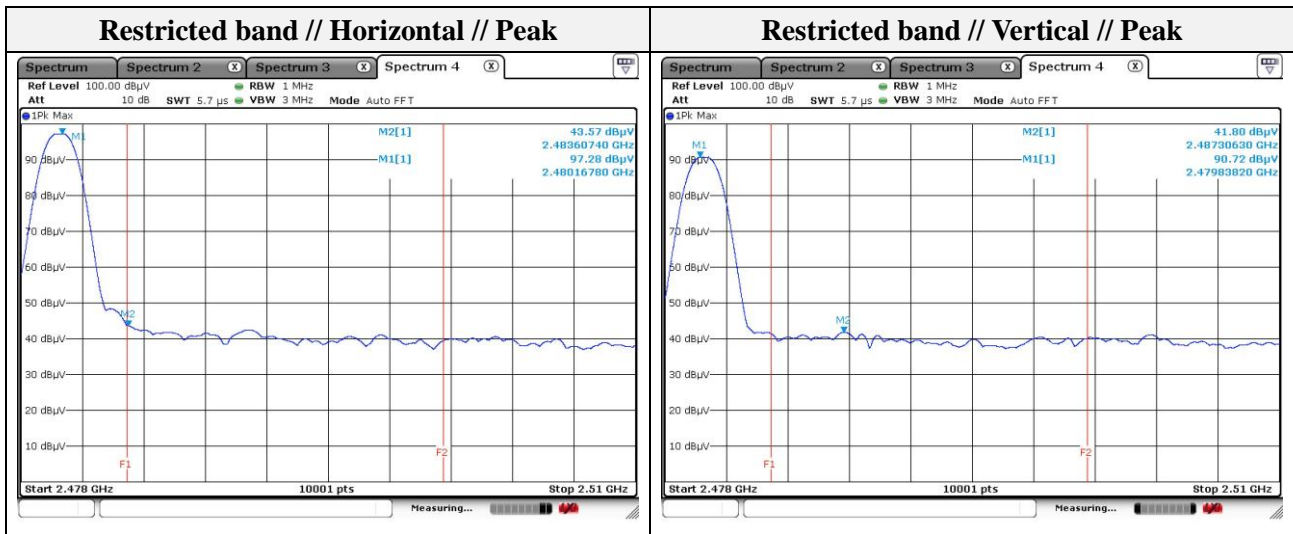
Mode: LE 1 Mbps(Left unit)  
 Distance of measurement: 3 meter  
 Channel: 39

**- Spurious**

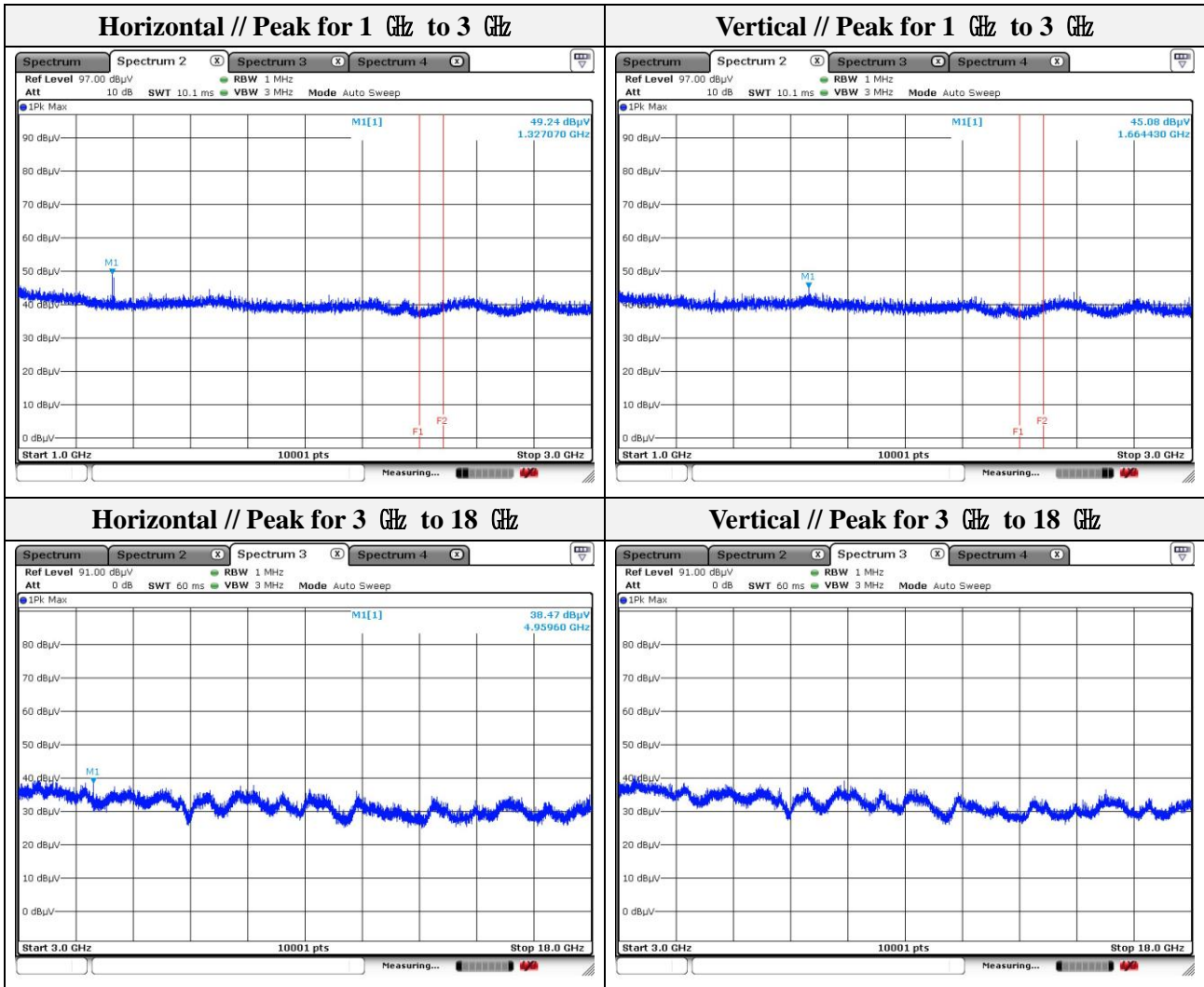
Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1 327.07	49.24	Peak	H	-7.50	-	41.74	74.00	32.26
1 664.43	45.08	Peak	V	-4.84	-	40.24	74.00	33.76
4 959.60	38.47	Peak	H	8.30	-	46.77	74.00	27.23

**- Band edge**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
2 483.61	43.57	Peak	V	0.77	-	42.80	74.00	31.20
2 487.31	41.80	Peak	H	-0.77	-	41.03	74.00	32.97



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Note.

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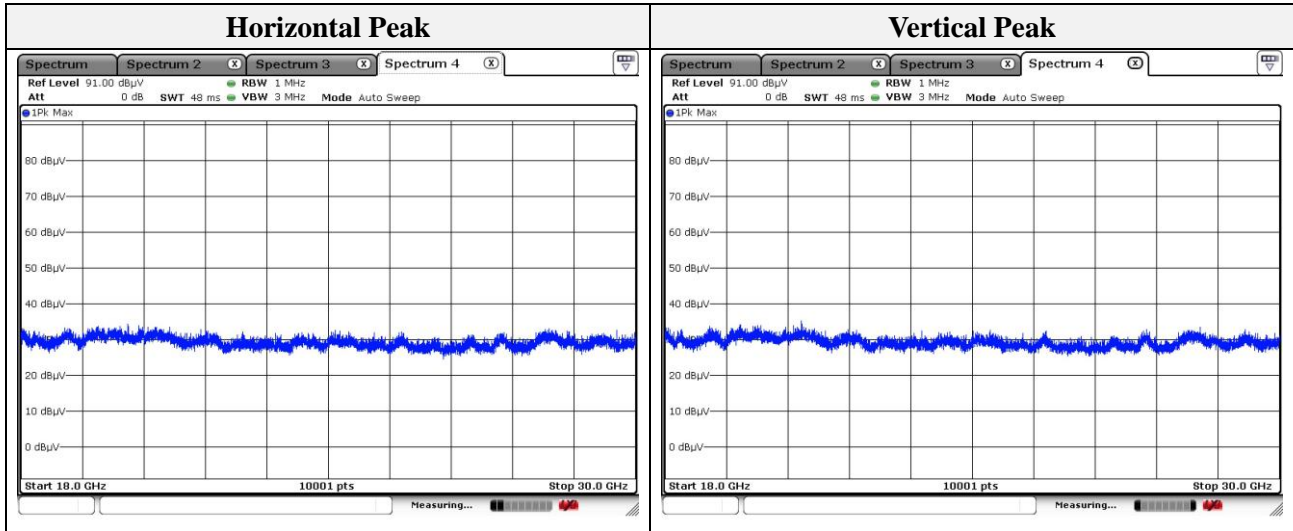


**Test results (18 GHz to 30 GHz) – Worst case**

Mode: LE 1 Mbps(Left unit)

Distance of measurement: 3 meter

Channel: 00 (Worst case)



Note.

No spurious emission were detected above 18 GHz.

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**Test results (Above 1 000 MHz)**

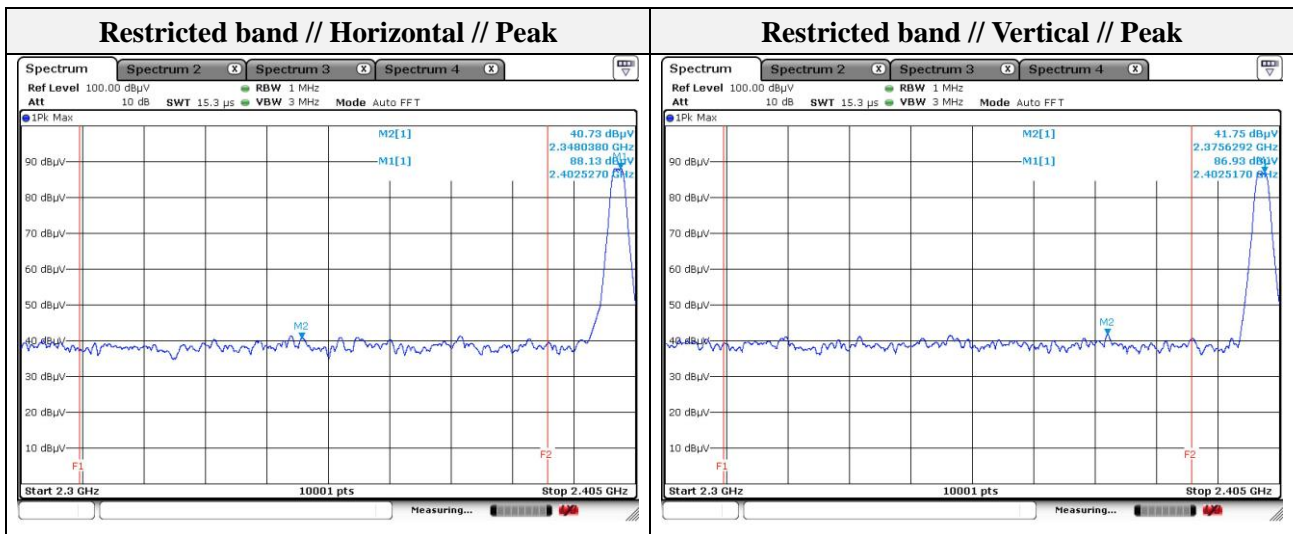
Mode: LE 2 Mbps (Left unit)  
 Distance of measurement: 3 meter  
 Channel: 00

**- Spurious**

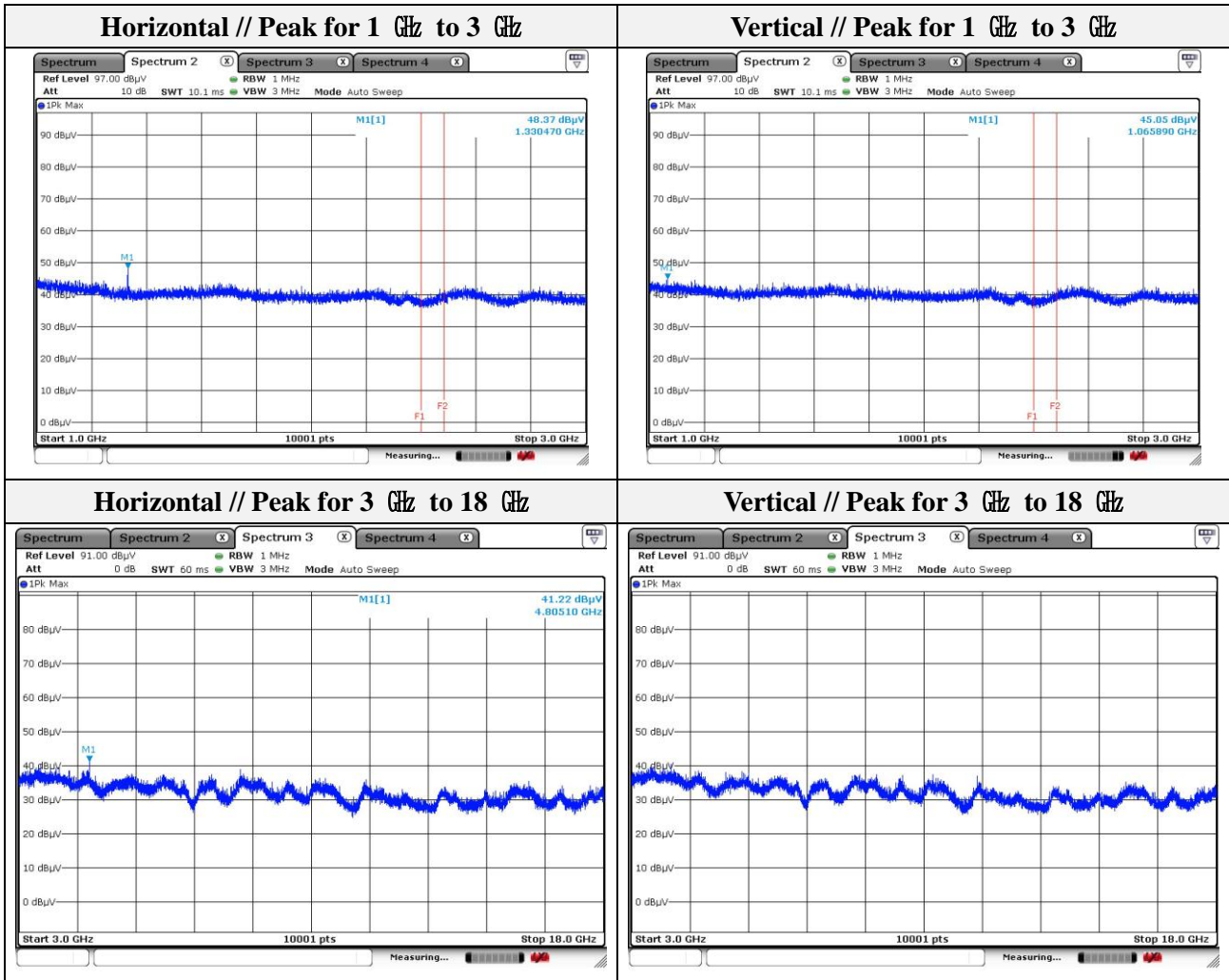
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 065.89	45.05	Peak	V	-9.06	-	35.99	74.00	38.01
1 330.47	48.37	Peak	H	-7.48	-	40.89	74.00	33.11
4 805.10	41.22	Peak	H	7.11	-	48.33	74.00	25.67

**- Band edge**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 348.04	40.73	Peak	H	-0.87	-	39.86	74.00	34.14
2 375.63	41.75	Peak	V	-0.84	-	40.91	74.00	33.09



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Note.

1. Average test would be performed if the peak result were greater than the average limit.

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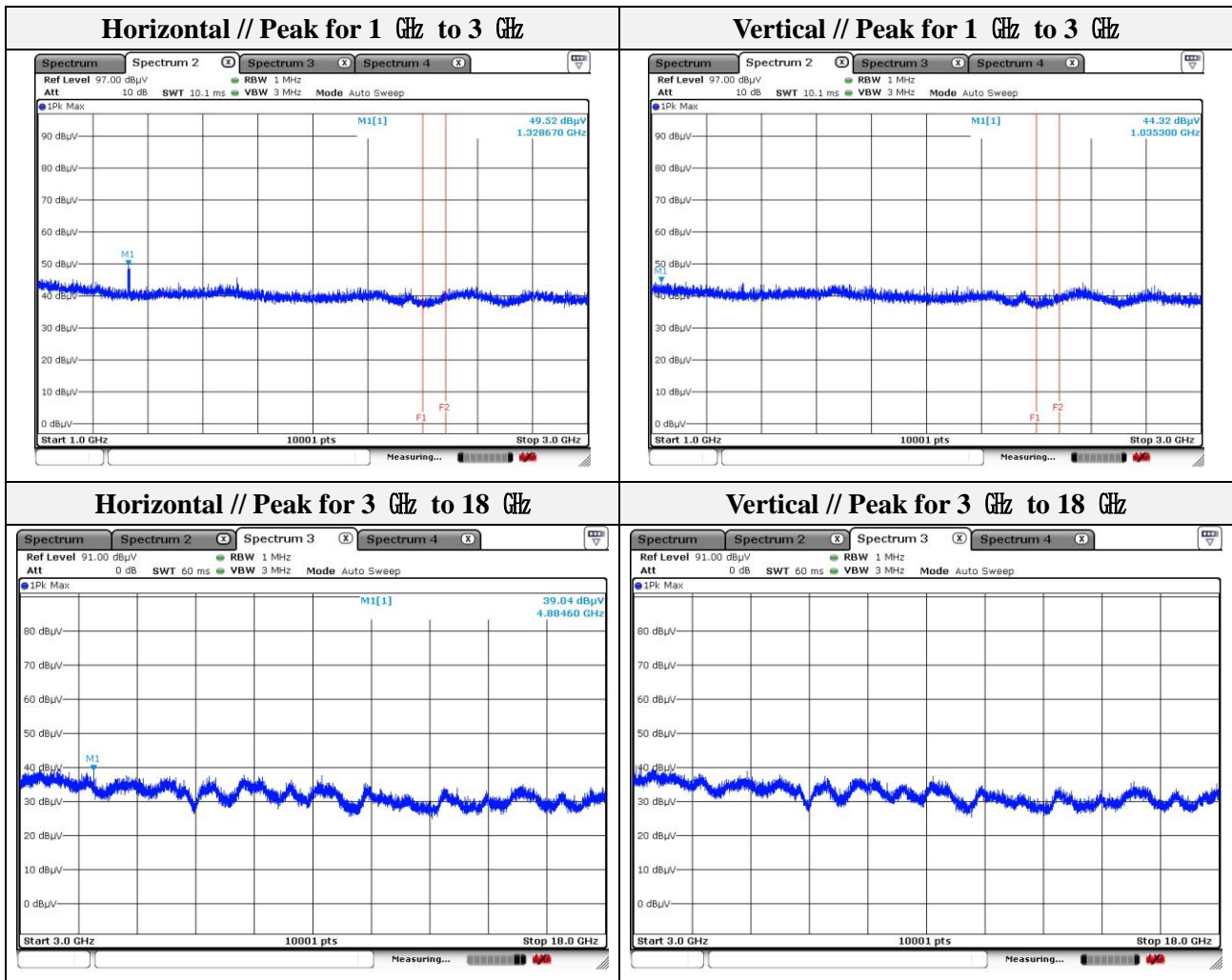
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Mode: LE 2 Mbps (Left unit)  
 Distance of measurement: 3 meter  
 Channel: 20

- **Spurious**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 035.30	44.32	Peak	V	-9.24	-	35.08	74.00	38.92
1 328.67	49.52	Peak	H	-7.49	-	42.03	74.00	31.97
4 884.60	39.04	Peak	H	7.72	-	46.76	74.00	27.24



Note.

1. Average test would be performed if the peak result were greater than the average limit.

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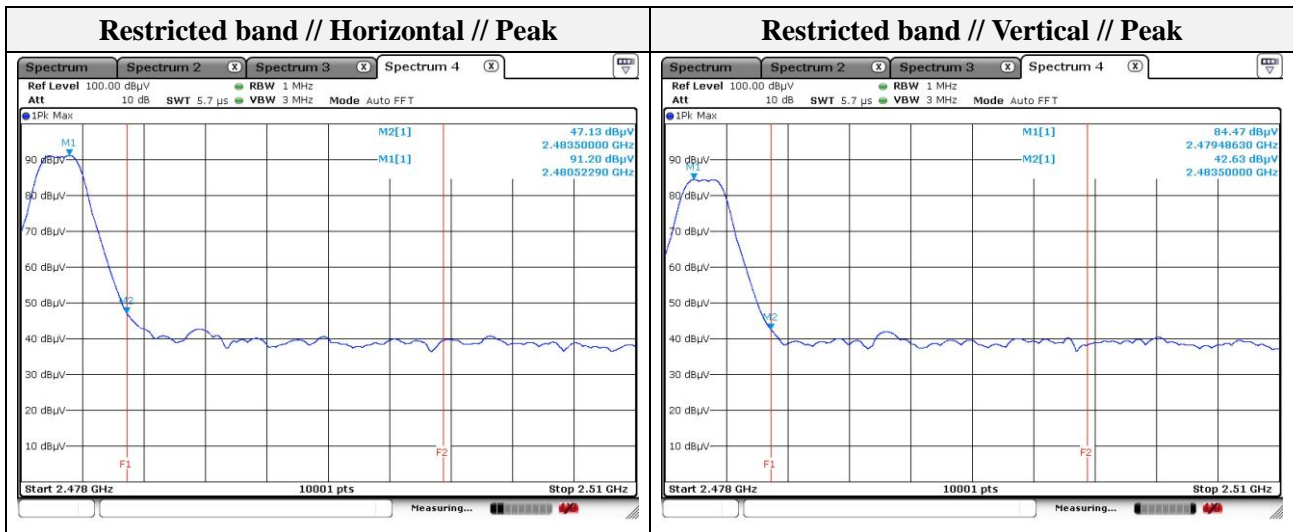
Mode: LE 2 Mbps (Left unit)  
 Distance of measurement: 3 meter  
 Channel: 39

**- Spurious**

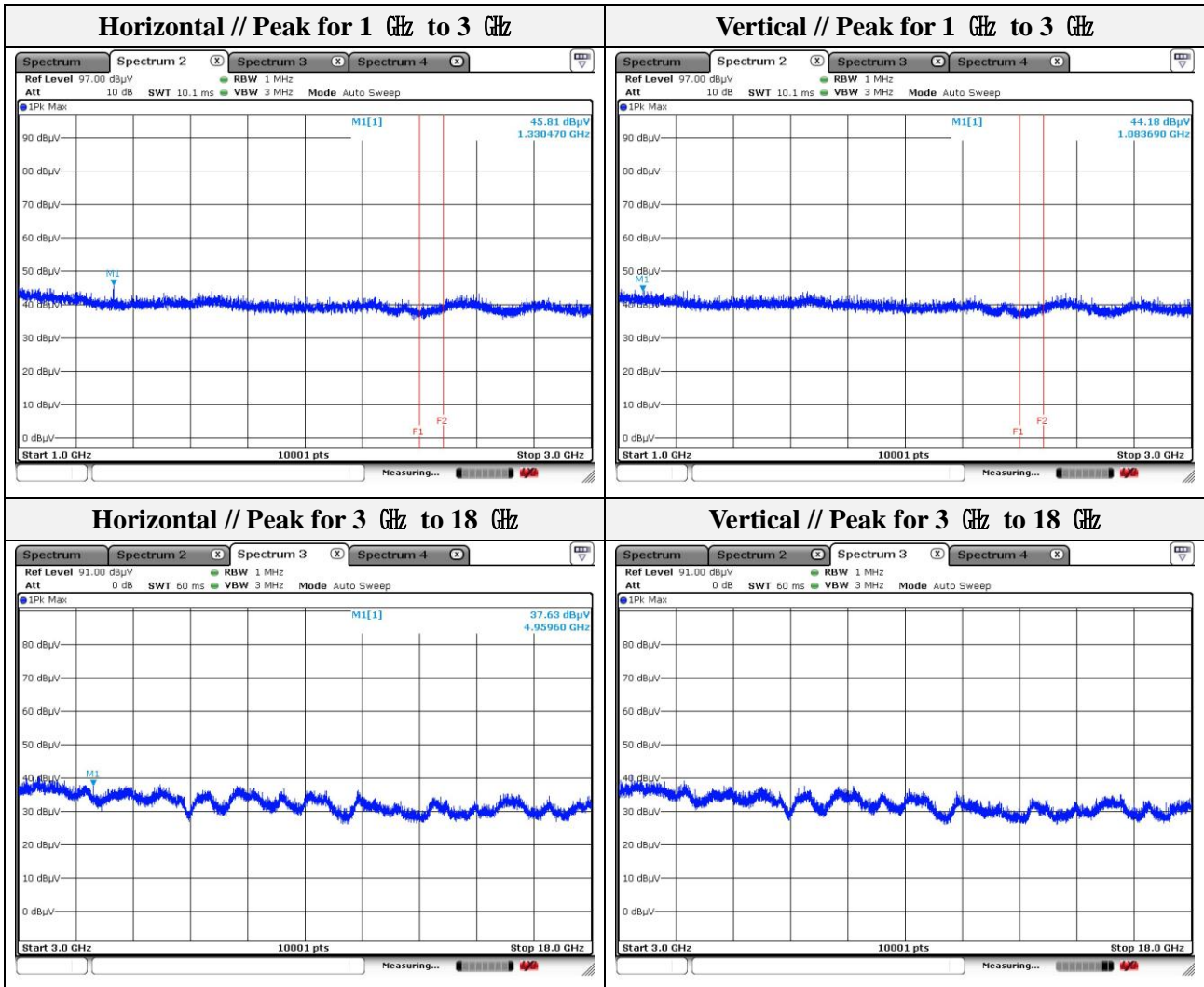
Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1 083.69	44.18	Peak	V	-8.96	-	35.22	74.00	38.78
1 330.47	45.81	Peak	H	-7.48	-	38.33	74.00	35.67
4 959.60	37.63	Peak	H	8.30	-	45.93	74.00	28.07

**- Band edge**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
2 483.50	42.63	Peak	V	-0.77	-	41.86	74.00	32.14
2 483.50	47.13	Peak	H	-0.77	-	46.36	74.00	27.64



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Note.

1. Average test would be performed if the peak result were greater than the average limit.

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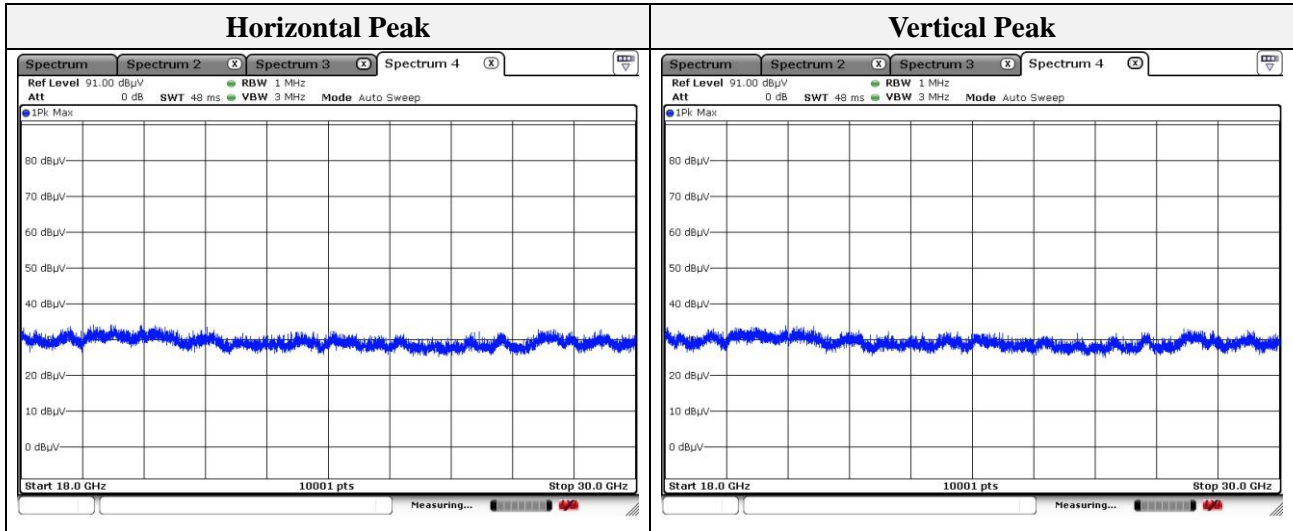


Test results (18 GHz to 30 GHz) – Worst case

Mode: LE 1 Mbps (Left unit)

Distance of measurement: 3 meter

Channel: 00 (Worst case)



Note.  
No spurious emission were detected above 18 GHz.

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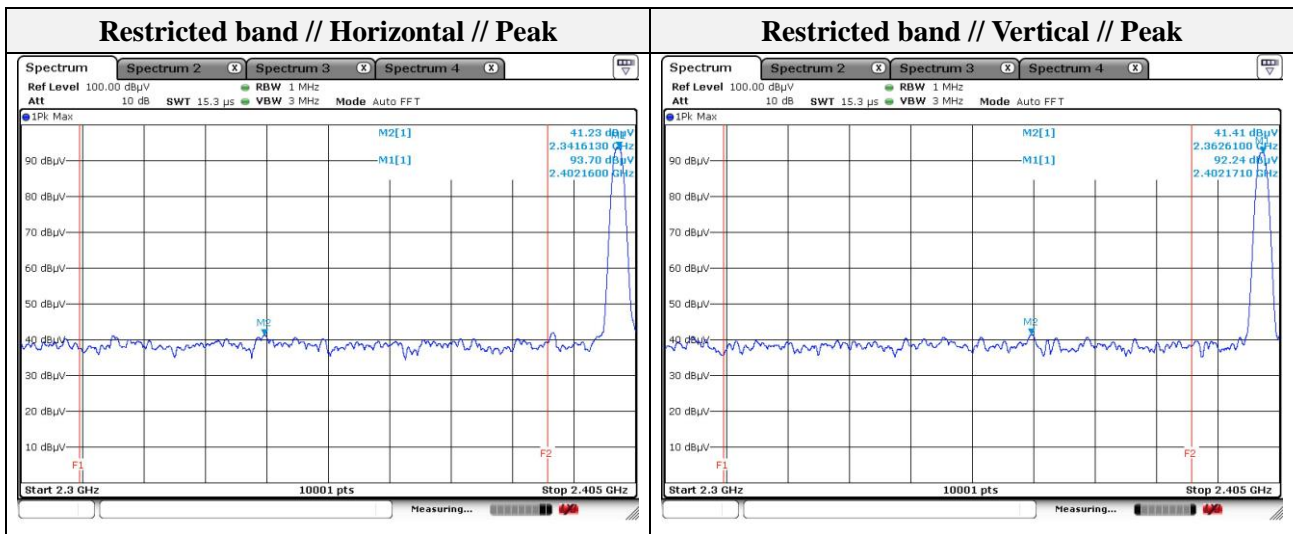
Mode: LE 1 Mbps (Right unit)  
 Distance of measurement: 3 meter  
 Channel: 00

**- Spurious**

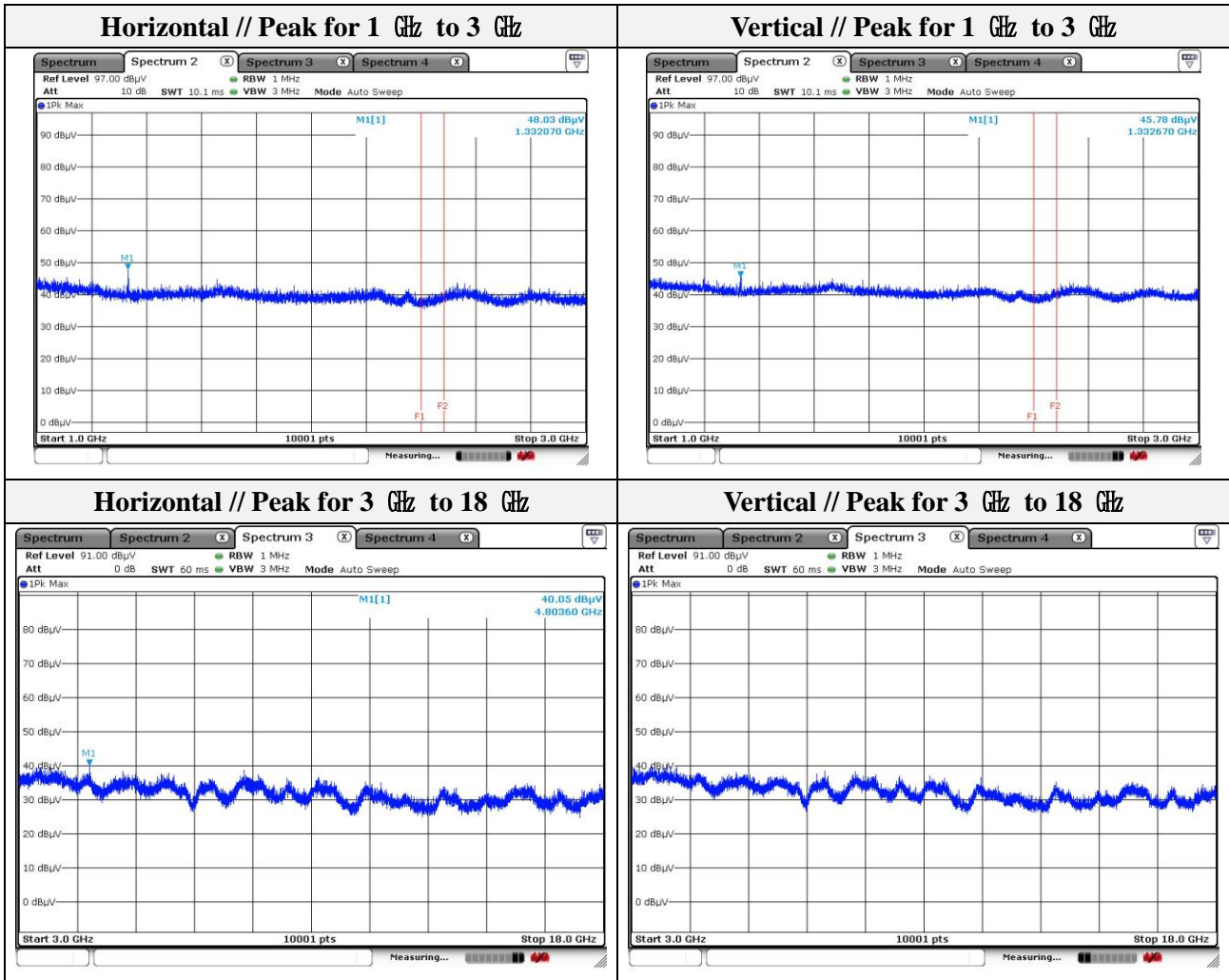
Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1 332.07	48.03	Peak	H	-7.47	-	40.56	74.00	33.44
1 332.67	45.78	Peak	V	-7.47	-	38.31	74.00	35.69
4 803.60	40.05	Peak	H	7.10	-	47.15	74.00	26.85

**- Band edge**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
2 341.61	41.23	Peak	H	-0.87	-	40.36	74.00	33.64
2 362.61	41.41	Peak	V	-0.85	-	40.56	74.00	33.44



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Note.

1. Average test would be performed if the peak result were greater than the average limit.

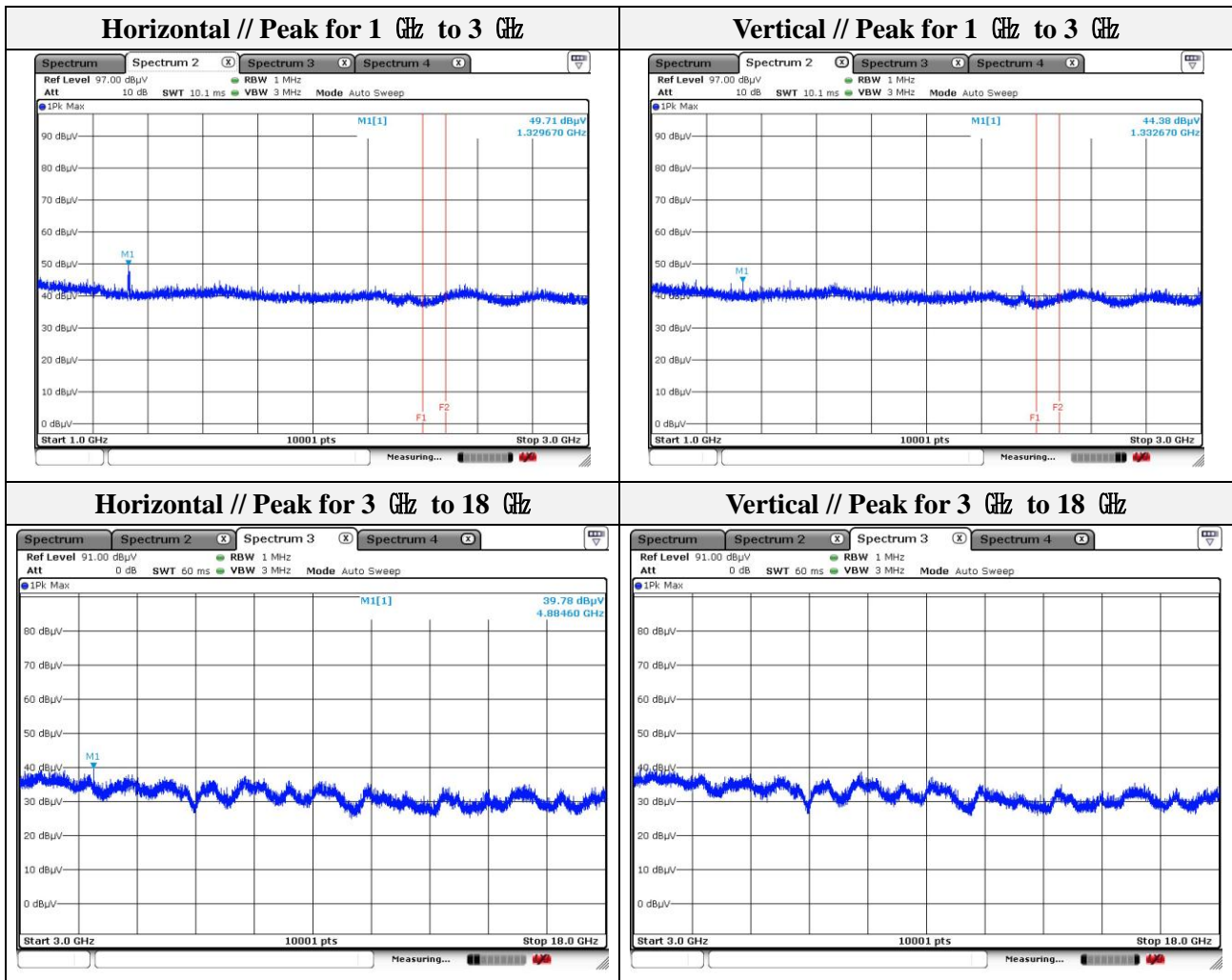
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Mode: LE 1 Mbps (Right unit)  
 Distance of measurement: 3 meter  
 Channel: 20

- **Spurious**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1 329.67	49.71	Peak	H	-7.48	-	42.23	74.00	31.77
1 332.67	44.38	Peak	V	-7.47	-	36.91	74.00	37.09
4 884.60	39.78	Peak	H	7.72	-	47.50	74.00	26.50



Note.

1. Average test would be performed if the peak result were greater than the average limit.

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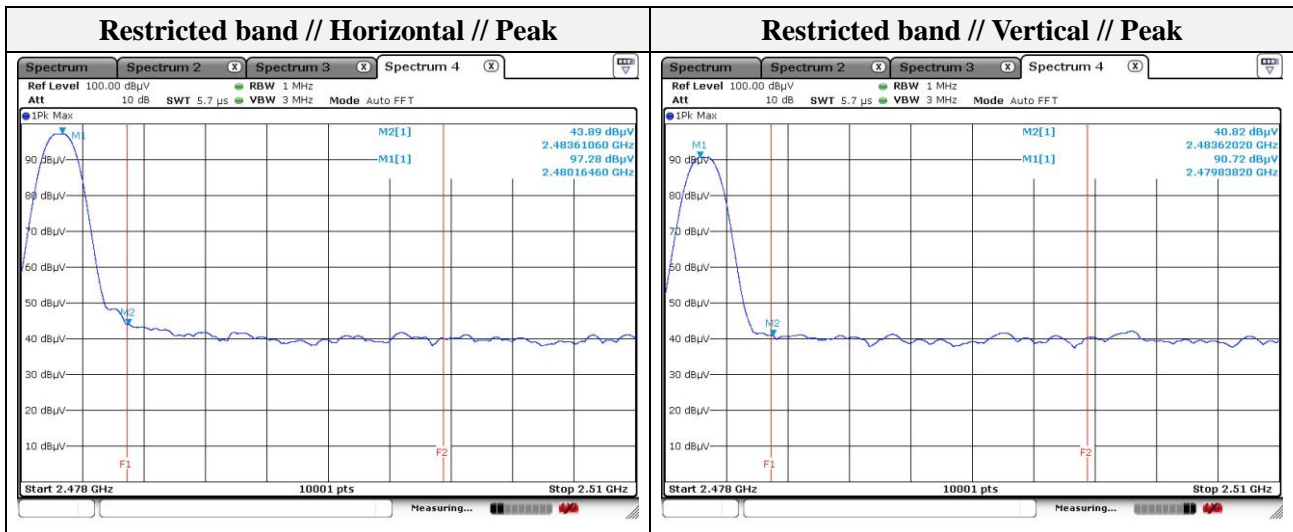
Mode: LE 1 Mbps (Right unit)  
 Distance of measurement: 3 meter  
 Channel: 39

**- Spurious**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1 328.47	49.98	Peak	H	-7.49	-	42.49	74.00	31.51
1 665.83	45.44	Peak	V	-4.82	-	40.62	74.00	33.38
4 959.60	38.19	Peak	H	8.30	-	46.49	74.00	27.51

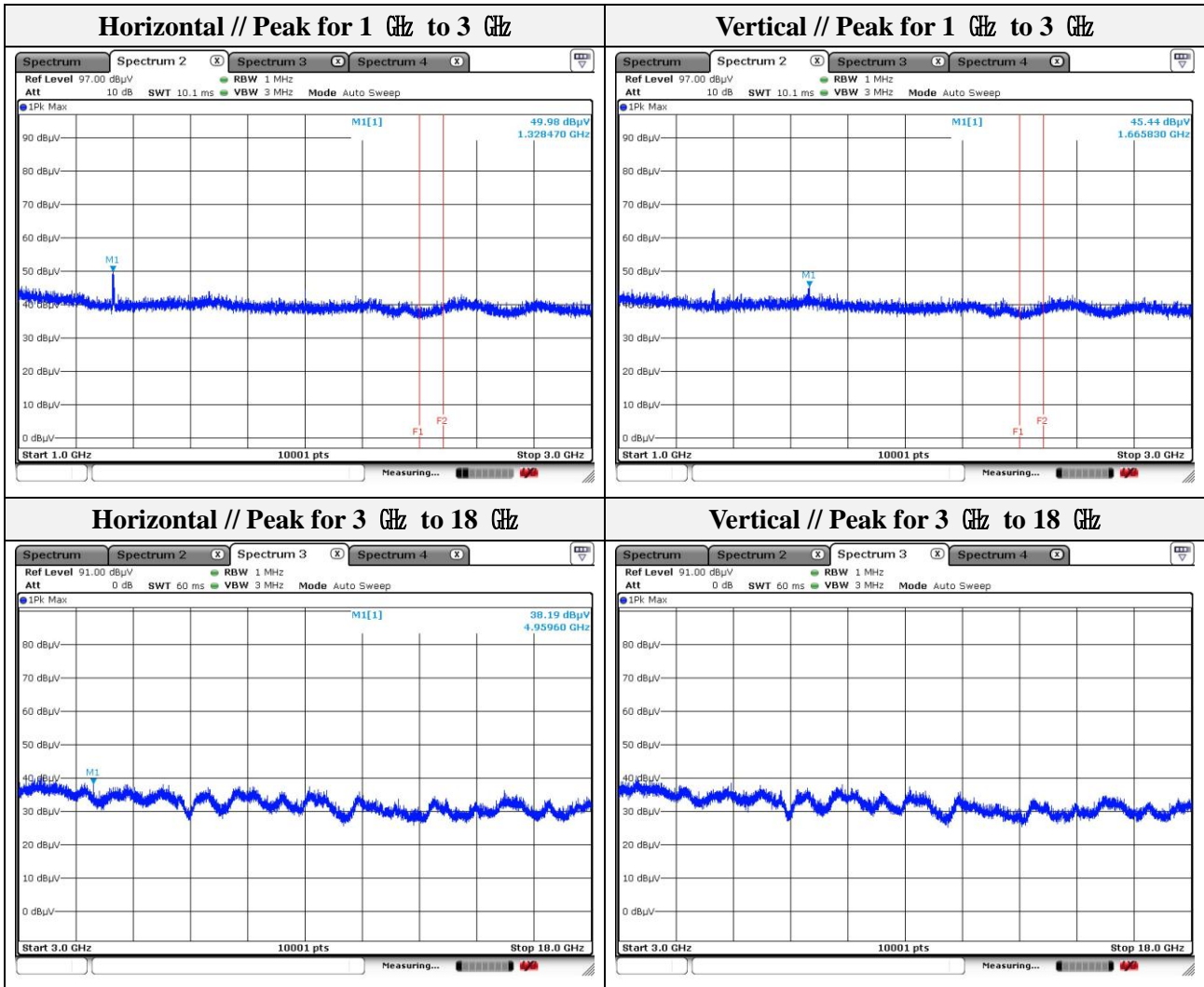
**- Band edge**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
2 483.61	43.89	Peak	H	-0.77	-	43.12	74.00	30.88
2 483.62	40.82	Peak	V	-0.77	-	40.05	74.00	33.95



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Note.

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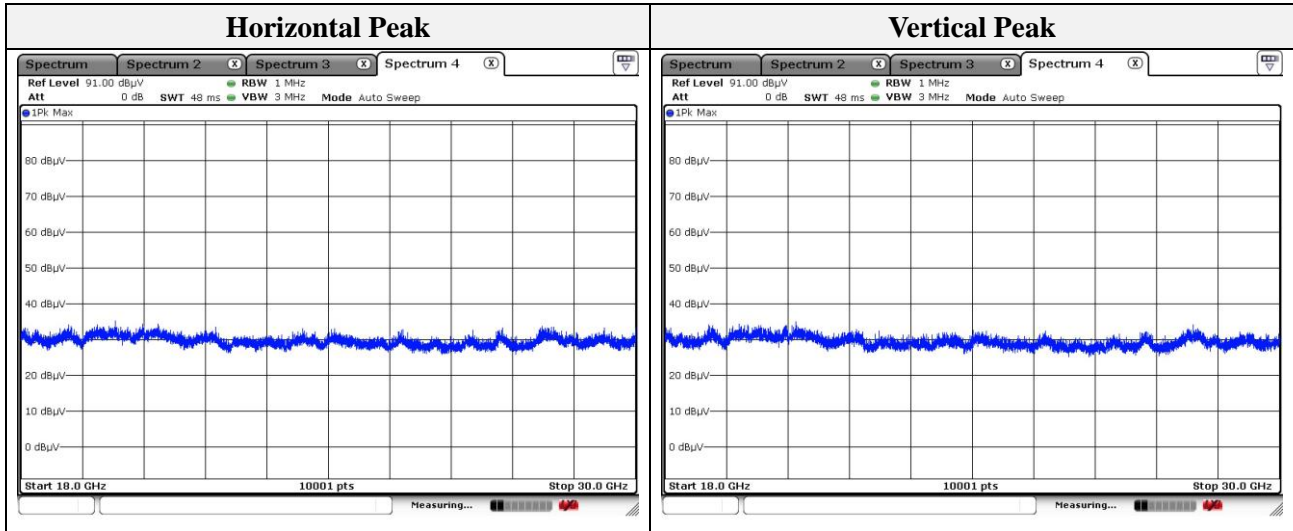


Test results (18 GHz to 30 GHz) – Worst case

Mode: LE 1 Mbps (Right unit)

Distance of measurement: 3 meter

Channel: 00 (Worst case)



Note.  
No spurious emission were detected above 18 GHz.

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**Test results (Above 1 000 MHz)**

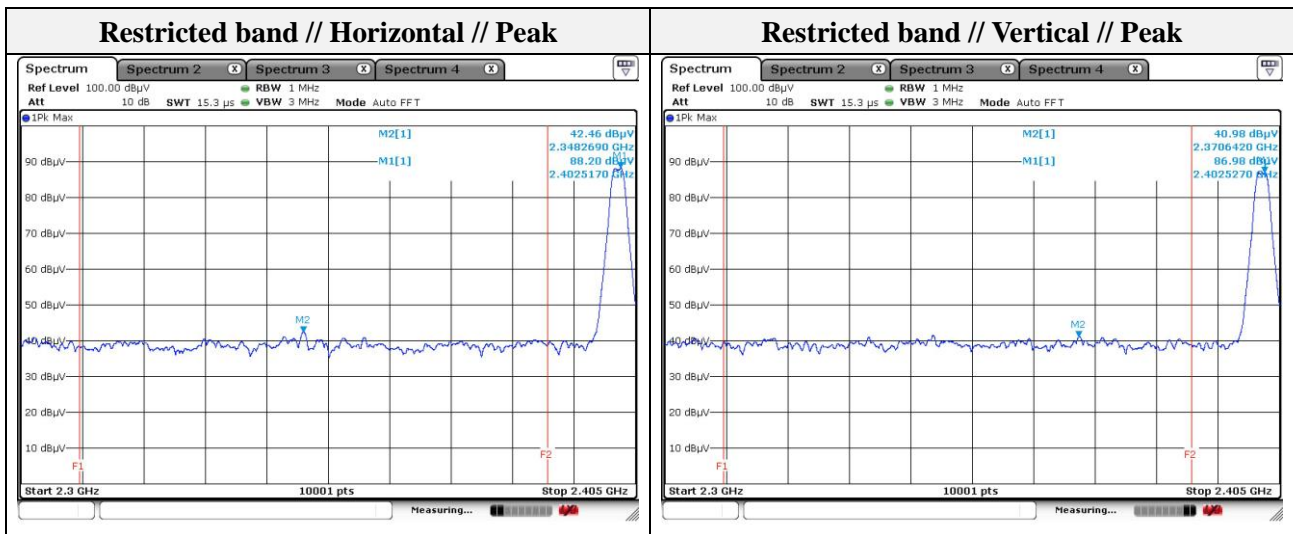
Mode: LE 2 Mbps (Right unit)  
 Distance of measurement: 3 meter  
 Channel: 00

**- Spurious**

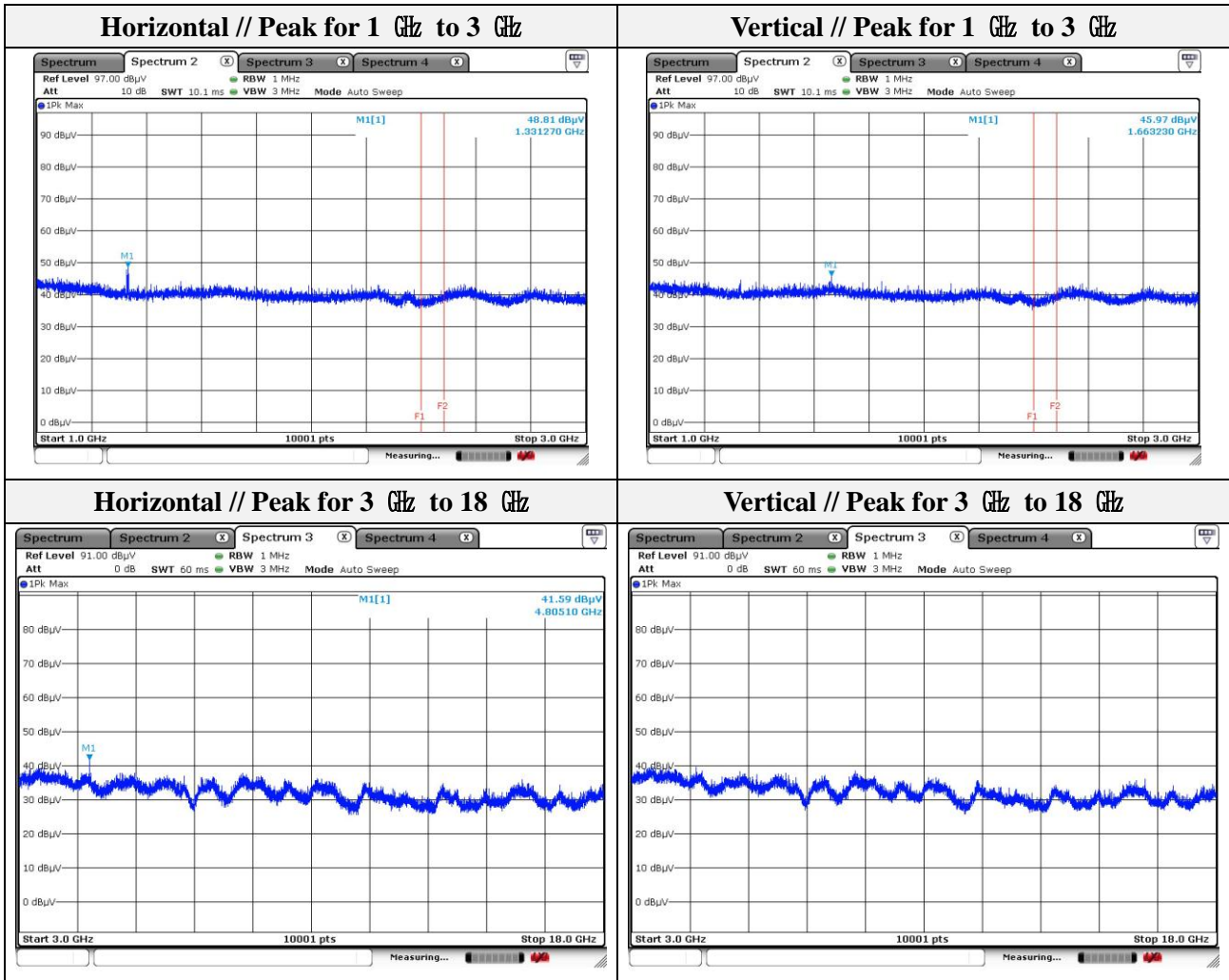
Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1 331.27	48.81	Peak	H	-7.47	-	41.34	74.00	32.66
1 663.23	45.97	Peak	V	-4.85	-	41.12	74.00	32.88
4 805.10	41.59	Peak	H	7.11	-	48.70	74.00	25.30

**- Band edge**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
2 348.27	42.46	Peak	H	-0.87	-	41.59	74.00	32.41
2 370.64	40.98	Peak	V	-0.84	-	40.14	74.00	33.86



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Note.

1. Average test would be performed if the peak result were greater than the average limit.

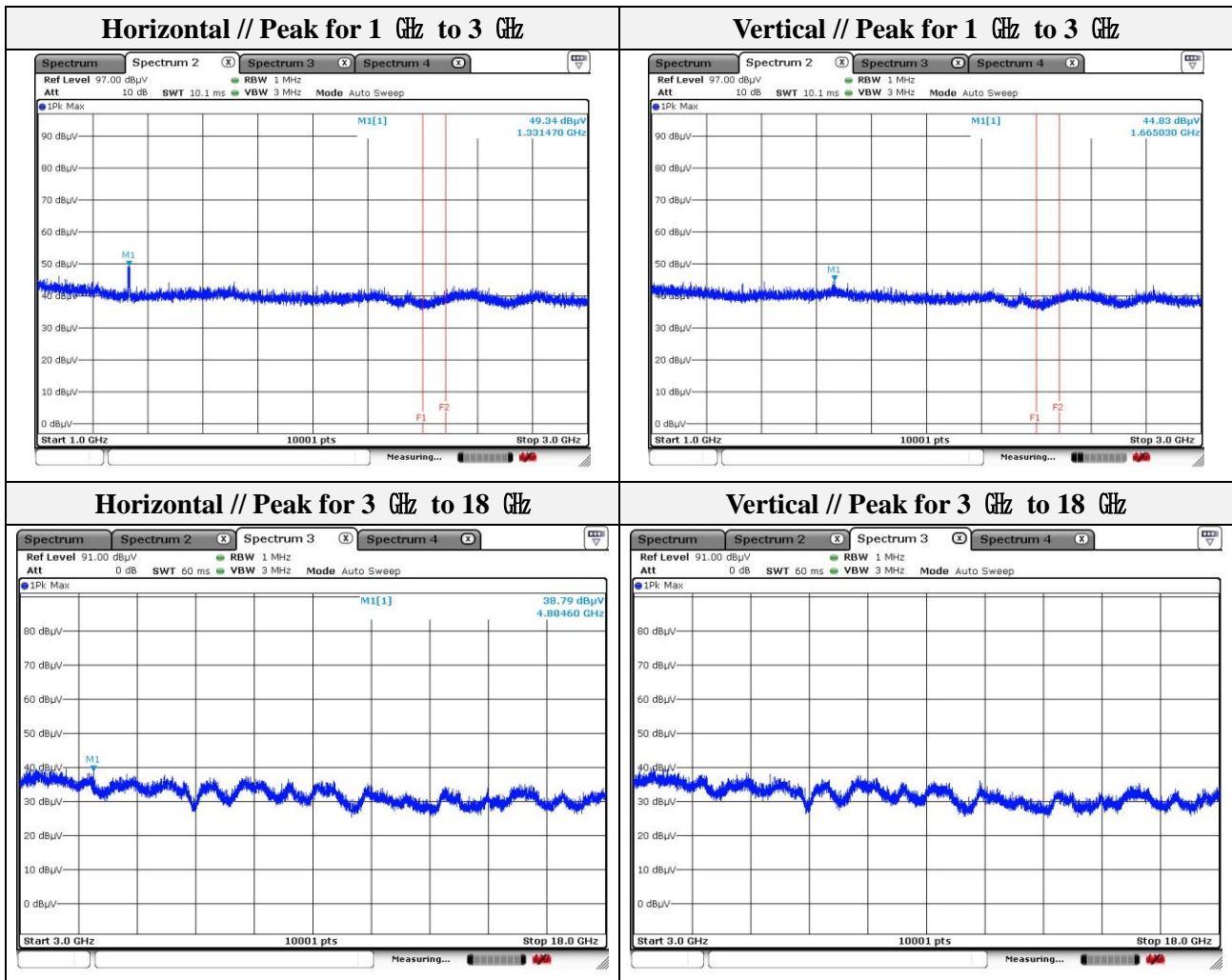
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Mode: LE 2 Mbps (Right unit)  
 Distance of measurement: 3 meter  
 Channel: 20

- **Spurious**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1 331.47	49.34	Peak	H	-7.47	-	41.87	74.00	32.13
1 665.03	44.83	Peak	V	-4.83	-	40.00	74.00	34.00
4 884.60	38.79	Peak	H	7.72	-	46.51	74.00	27.49



Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

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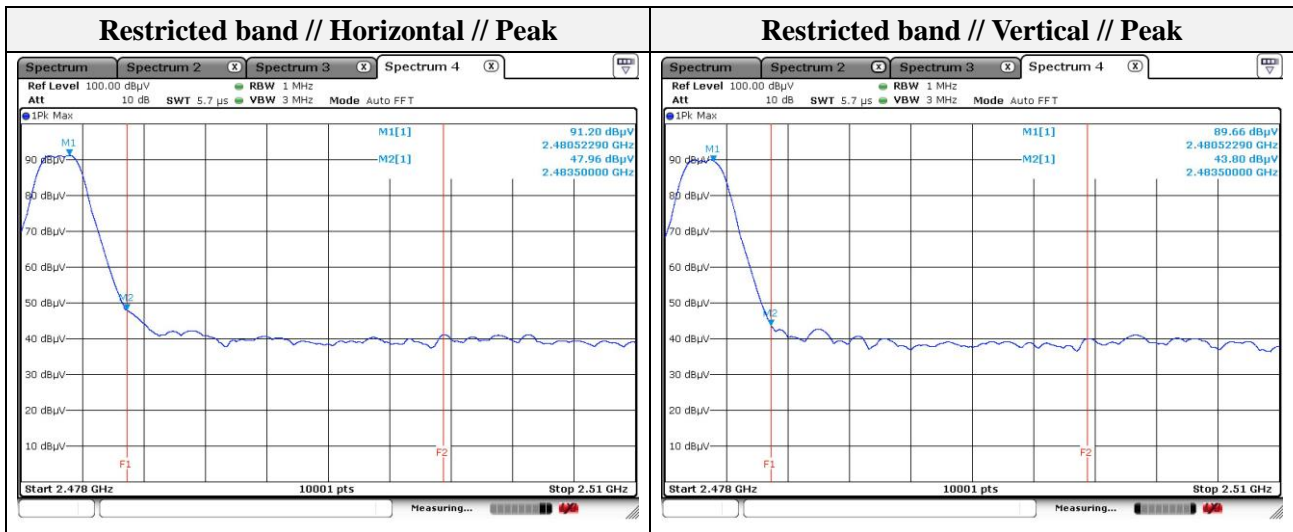
Mode: LE 2 Mbps (Right unit)  
 Distance of measurement: 3 meter  
 Channel: 39

**- Spurious**

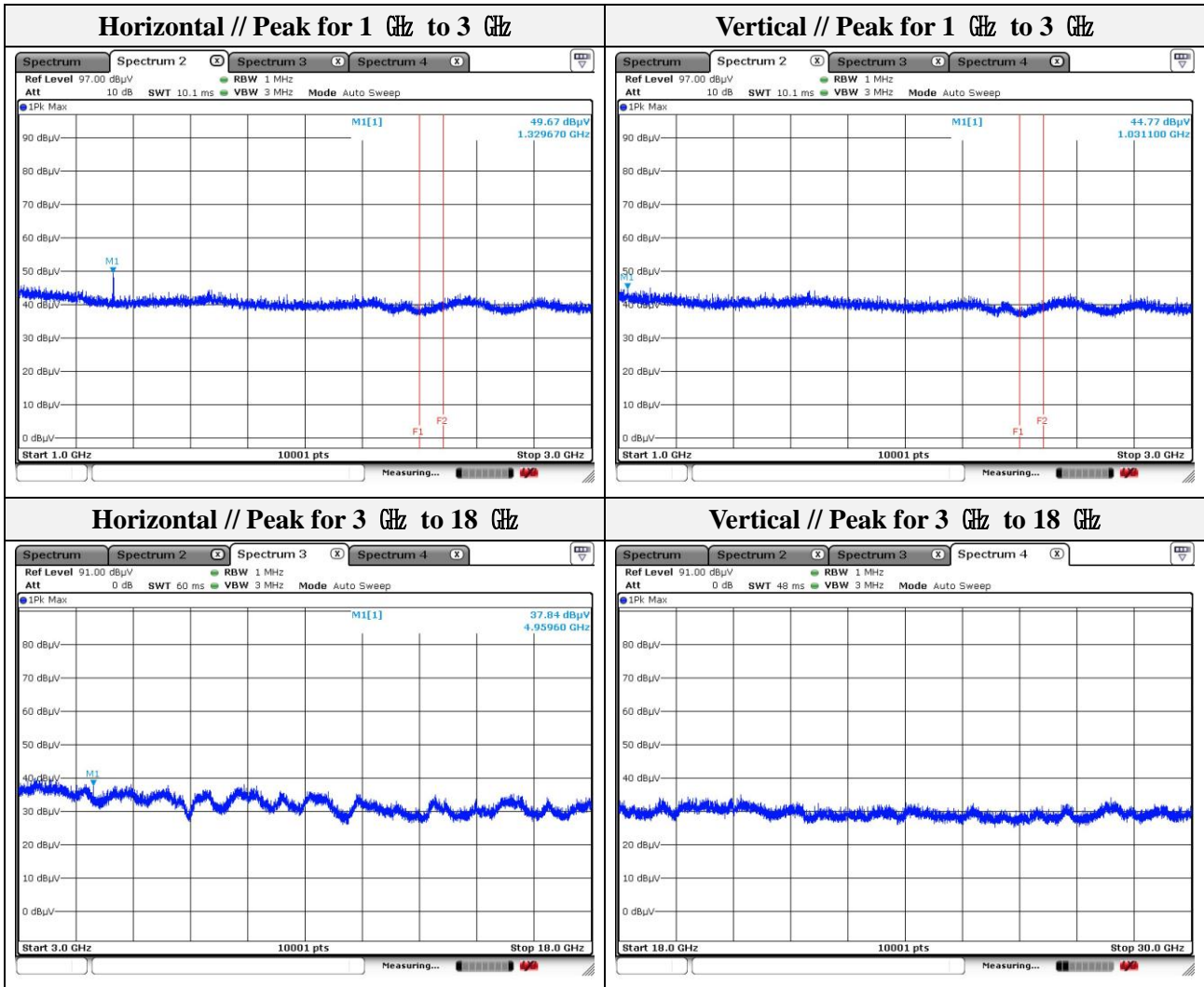
Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1 031.10	44.77	Peak	V	-9.26	-	35.51	74.00	38.49
1 329.67	49.67	Peak	H	-7.48	-	42.19	74.00	31.81
4 959.60	37.84	Peak	H	8.30	-	46.14	74.00	27.86

**- Band edge**

Frequency (MHz)	Level (dB $\mu$ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
2 483.50	47.96	Peak	H	-0.77	-	47.19	74.00	26.81
2 483.50	43.80	Peak	V	-0.77	-	43.03	74.00	30.97



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Note.

1. Average test would be performed if the peak result were greater than the average limit.

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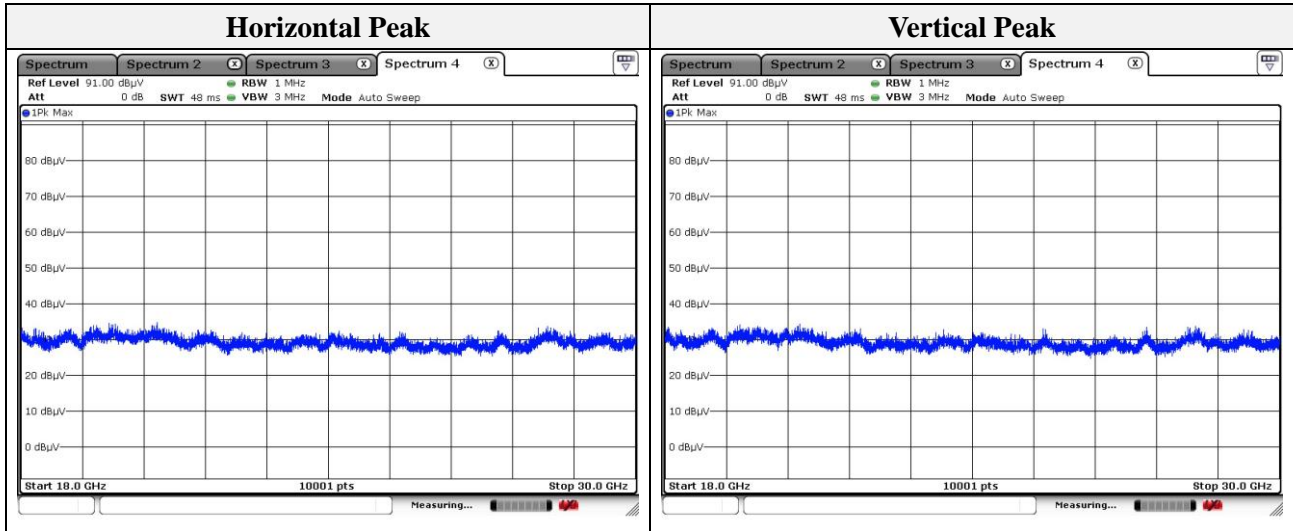


Test results (18 GHz to 30 GHz) – Worst case

Mode: LE 2 Mbps (Right unit)

Distance of measurement: 3 meter

Channel: 00 (Worst case)



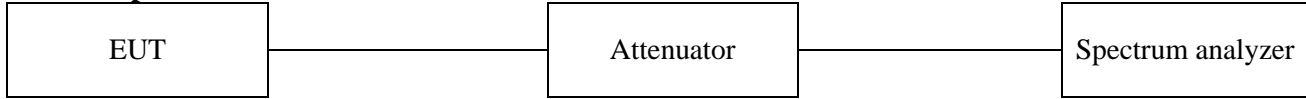
Note.  
No spurious emission were detected above 18 GHz.

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### 3.5. Conducted spurious emissions & band edge

#### Test setup



#### Test procedure

##### Band edge

ANSI C63.10-2013 - Section 11.11

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Set the RBW = 100 kHz
4. Set the VBW = [3 × RBW].
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow trace to fully stabilize.

##### Out of band emissions

ANSI C63.10-2013 - Section 11.11

1. Start frequency was set to 30 MHz and stop frequency was set to 25 GHz for 2.4 GHz frequencies and 40 GHz for 5 GHz frequencies
2. Set the RBW = 100 kHz
3. Set the VBW = [3 × RBW].
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Allow trace to fully stabilize.

##### **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))

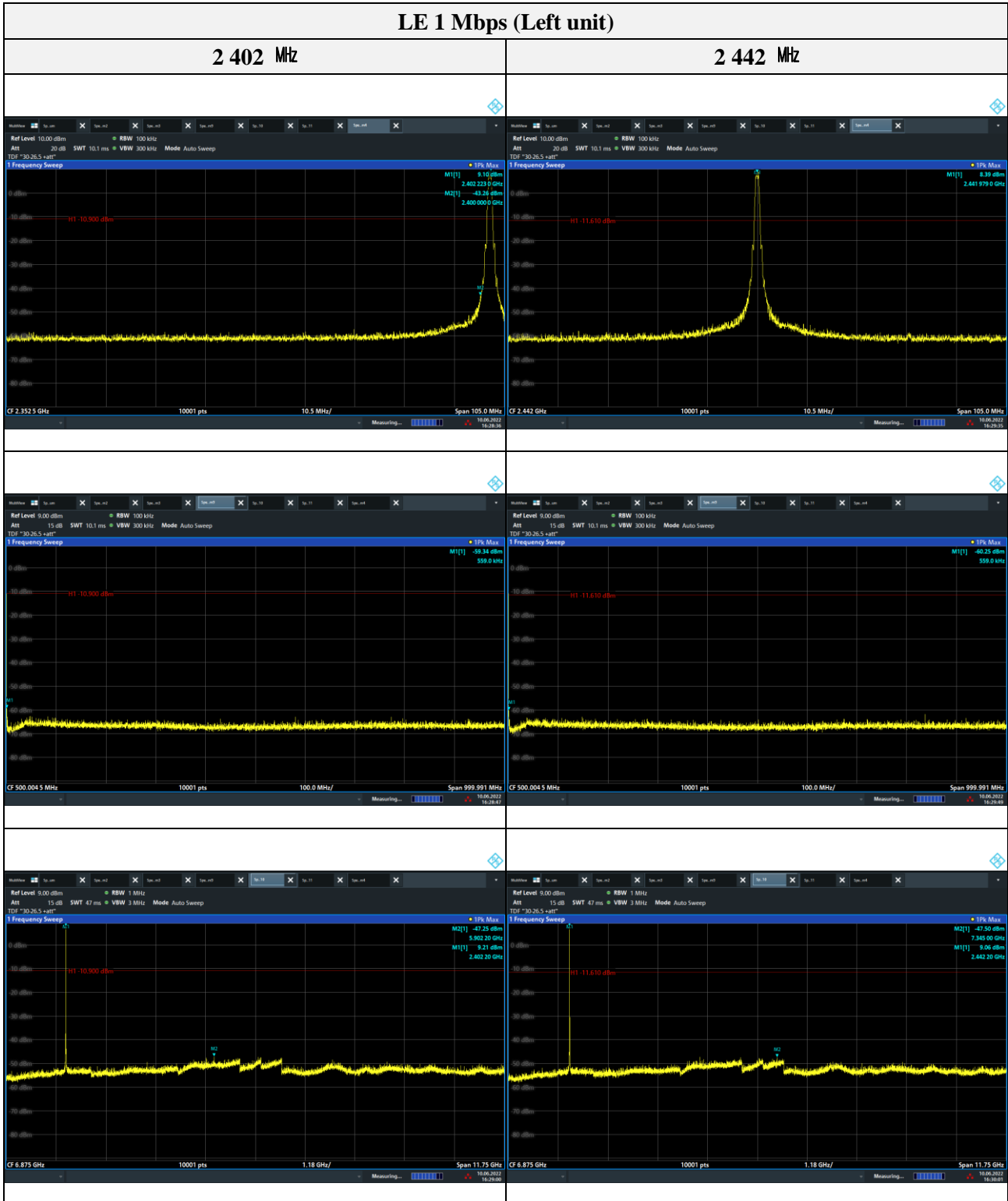


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### **Limit**

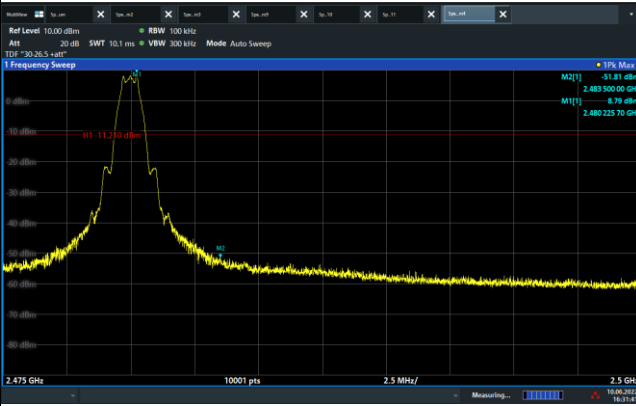
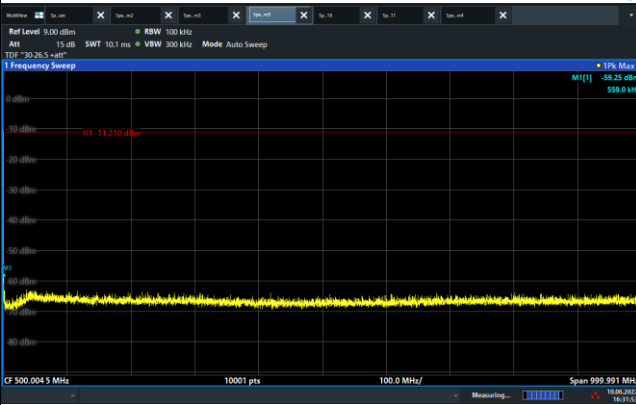
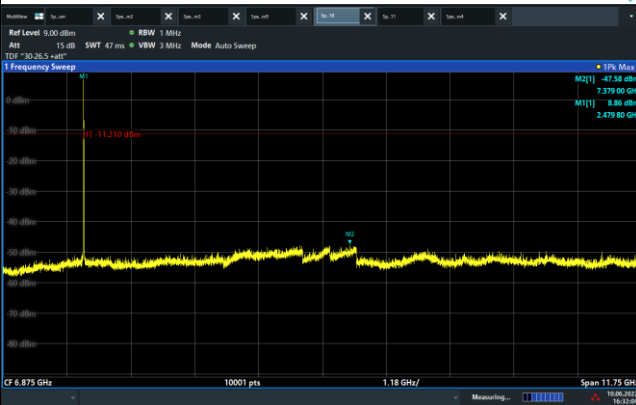
According to RSS-247 5.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

**Test results**

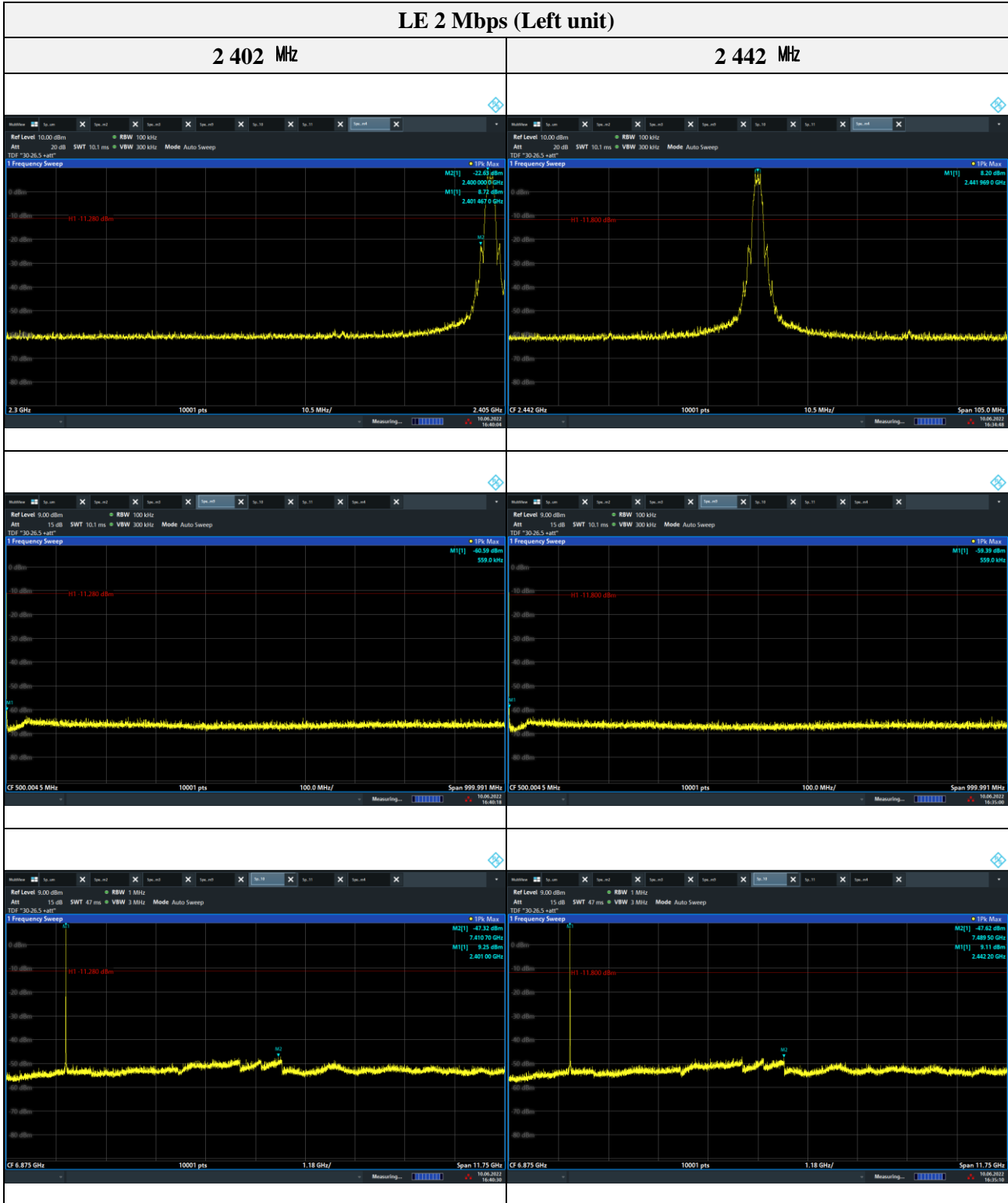


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LE 1 Mbps (Left unit)	
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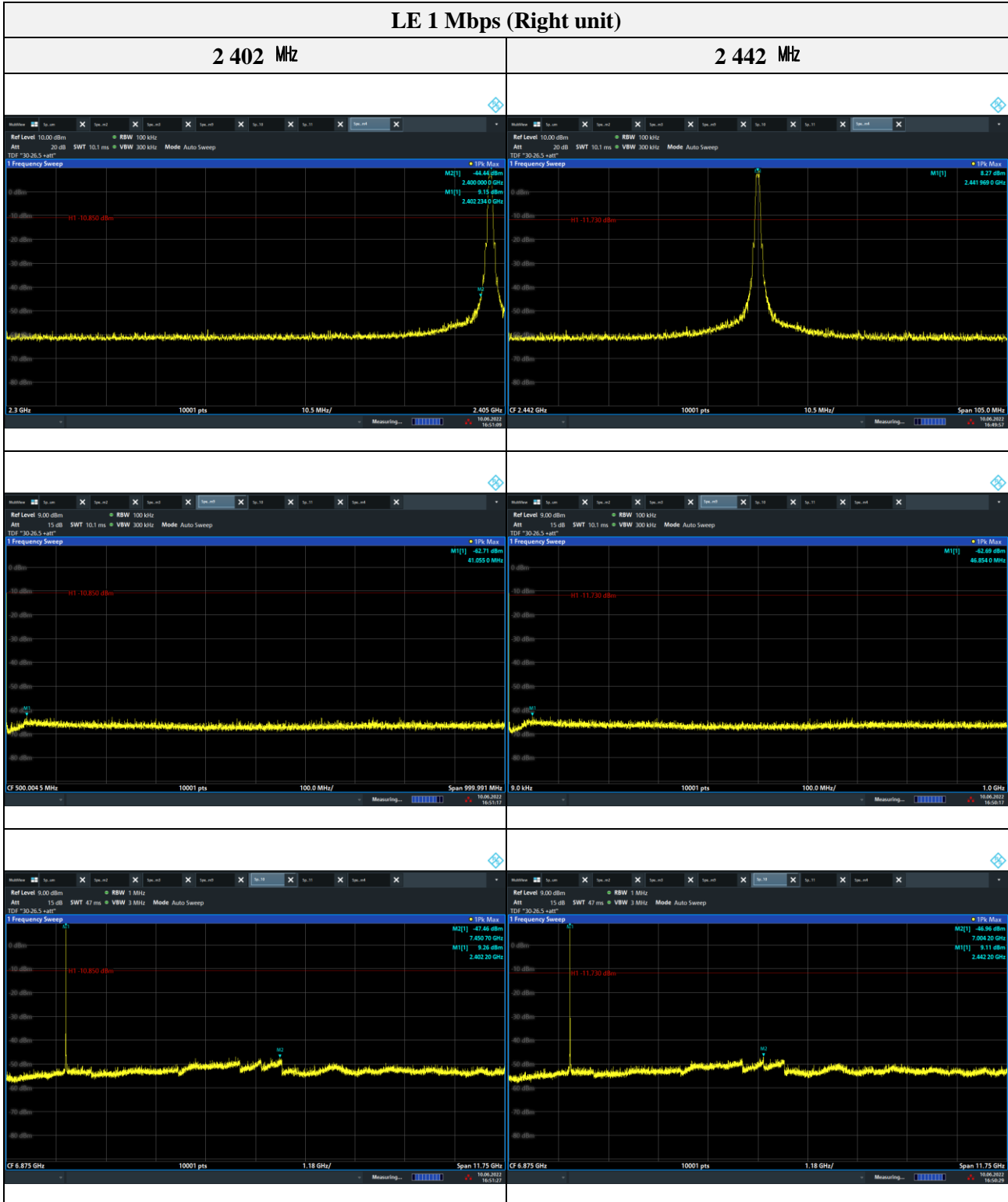


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<b>LE 2 Mbps (Left unit)</b>	
<b>2 480 MHz</b>	-
<p>Frequency Sweep        Ref Level: 10.00 dBm        Att: 20.00 dB        SWF: 10.1 ms        RBW: 100 kHz        VBW: 300 kHz        Mode: Auto Sweep        TDF: "30.26.5+sat"</p> <p>M2[1] -48.09 dBm        2.483 500.00 GHz        M1[1] -8.46 dBm        2.479 453.30 GHz</p> <p>CF 2.4875 GHz        10001 pts        2.5 MHz/        Span 25.0 MHz        16.06.2022        16:12:08</p>	BLANK
<p>Frequency Sweep        Ref Level: 9.00 dBm        Att: 15.00 dB        SWF: 10.1 ms        RBW: 100 kHz        VBW: 800 kHz        Mode: Auto Sweep        TDF: "30.26.5+sat"</p> <p>M1[1] -57.69 dBm        500.0 MHz</p> <p>CF 500.0045 MHz        10001 pts        100.0 MHz/        Span 999.901 MHz        16.06.2022        16:13:01</p>	BLANK
<p>Frequency Sweep        Ref Level: 9.00 dBm        Att: 15.00 dB        SWF: 47 ms        RBW: 1 MHz        VBW: 3 MHz        Mode: Auto Sweep        TDF: "30.26.5+sat"</p> <p>M2[1] -47.69 dBm        7.483 100.00 GHz        M1[1] -8.69 dBm        2.480 900 GHz</p> <p>CF 6.875 GHz        10001 pts        1.18 GHz/        Span 11.75 GHz        16.06.2022        16:13:15</p>	BLANK

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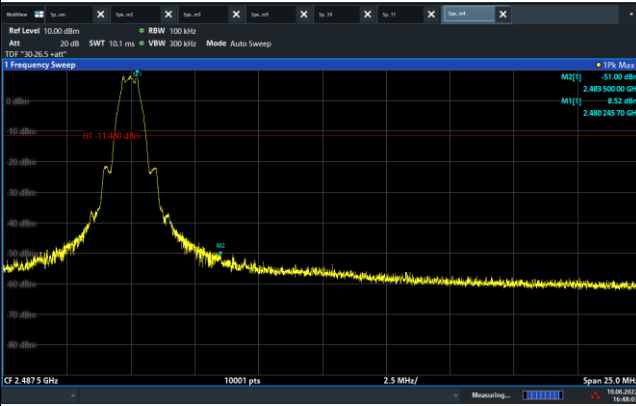
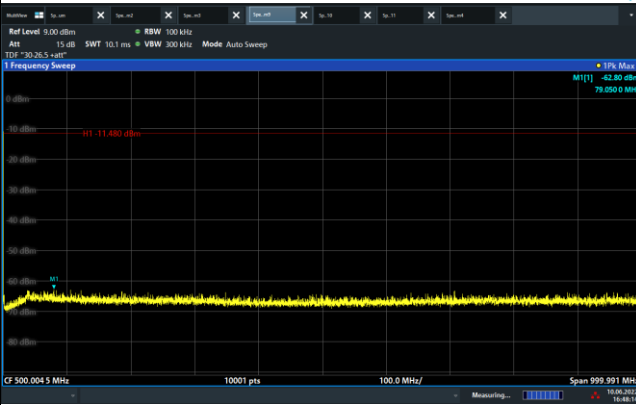
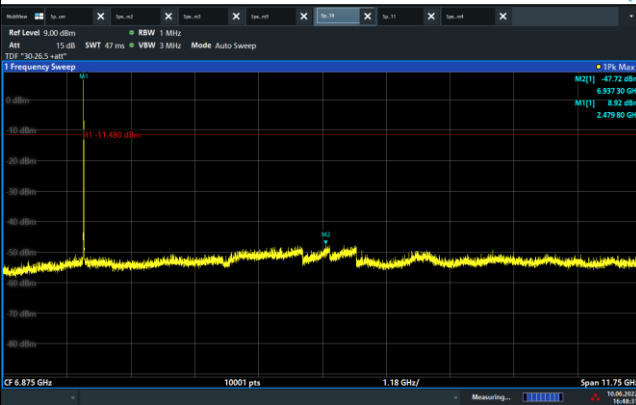
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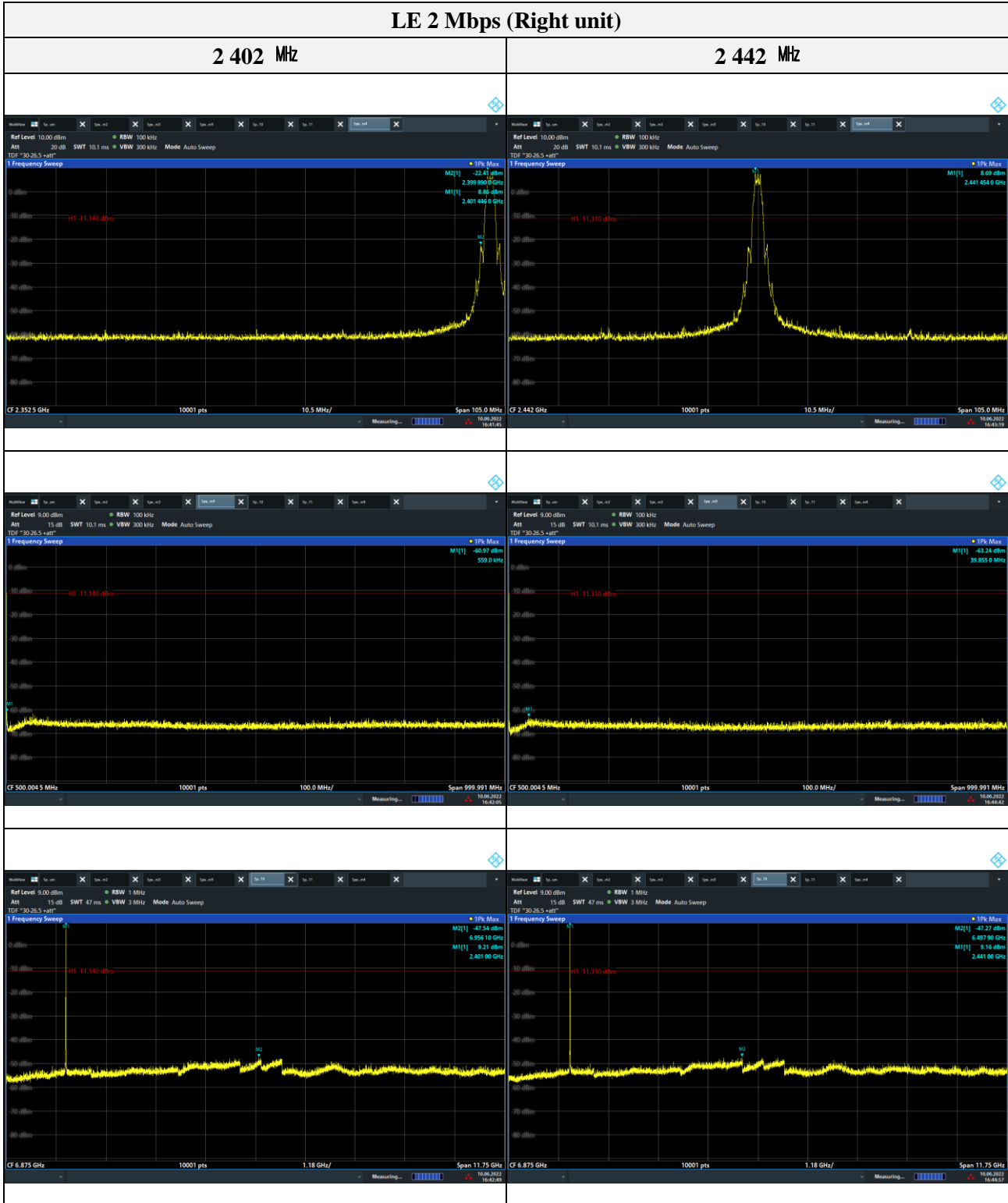
3701, 40, Simin-daero 365beon-gil,  
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea  
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www.kes.co.kr

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LE 1 Mbps (Right unit)	
2 480 MHz	-
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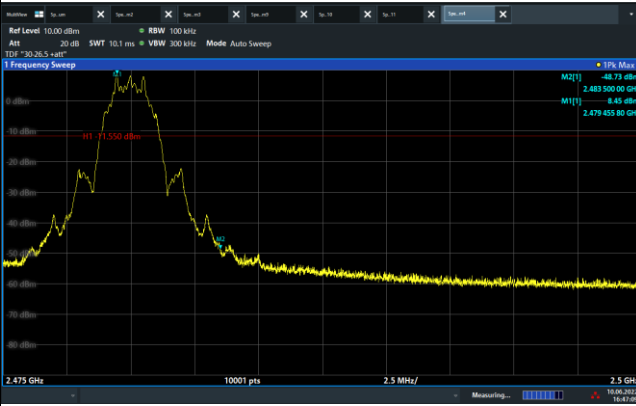
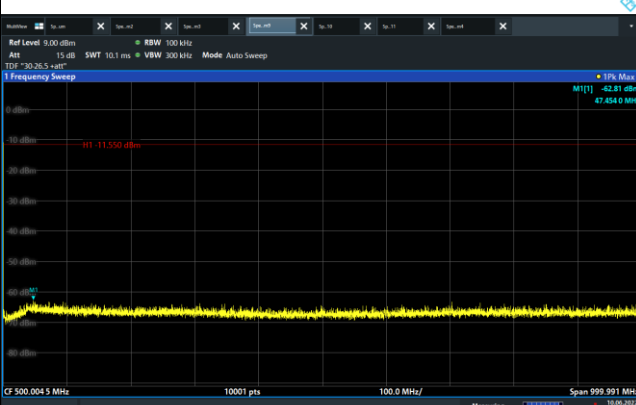

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www.kes.co.kr

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LE 2 Mbps (Right unit)	
2 480 MHz	-
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### Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
Spectrum analyzer	R&S	FSV3044	101272	1 year	2023.03.14
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2023.04.27
SIGNAL GENERATOR	Anritsu	68369B	002118	1 year	2023.05.13
Power Meter	Anritsu	ML2495A	2010001	1 year	2023.04.27
Pulse Power Sensor	Anritsu	MA2411B	1911111	1 year	2023.04.27
Attenuator	Mini-Circuits	BW-S10-2W263+	3	1 year	2023.01.17
Loop Antenna	Schwarzbeck	FMZB1513	225	2 years	2023.01.18
BILOG ANTENNA	Schwarzbeck	VULB 9168	9168-461	2 years	2022.12.22
Horn Antenna	A.H	SAS-571	414	1 year	2023.01.18
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA 9170550	1 year	2023.01.18
Amplifier	SONOMA INSTRUMENT	310N	401123	1 year	2023.06.02
PREAMPLIFIER	HP	8449B	3008A00538	1 year	2023.06.02
BROADBAND AMPLIFIER	SCHWARZBECK	BBV9721	PS9721-003	1 year	2023.01.17
Attenuator	HUBER+SHHNER	6806.17.A	NONE	1 year	2023.04.01
DC Power supply	Agilent	6632B	MY43004090	1 year	2022.06.21
EMI Test Receiver	R&S	ESU26	100552	1 year	2023.03.31

### Peripheral devices

Device	Manufacturer	Model No.	Serial No.
Notebook computer	LG Electronics Inc.,	LGS53	306QCZP560949

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