

3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (49) of (83)

Test results (Above 1 000	MHz)
Mode	BDR(Left unit)

widde:	BDR(Left unit)
Distance of measurement:	3 meter
Channel:	00

Spurious

Frequency (Mbz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
1 009.70	44.93	Peak	V	-9.39	-	35.54	74.00	38.46
1 328.27	48.74	Peak	Н	-7.49	-	41.25	74.00	32.75
4 803.60	42.20	Peak	Н	7.10	-	49.30	74.00	24.70

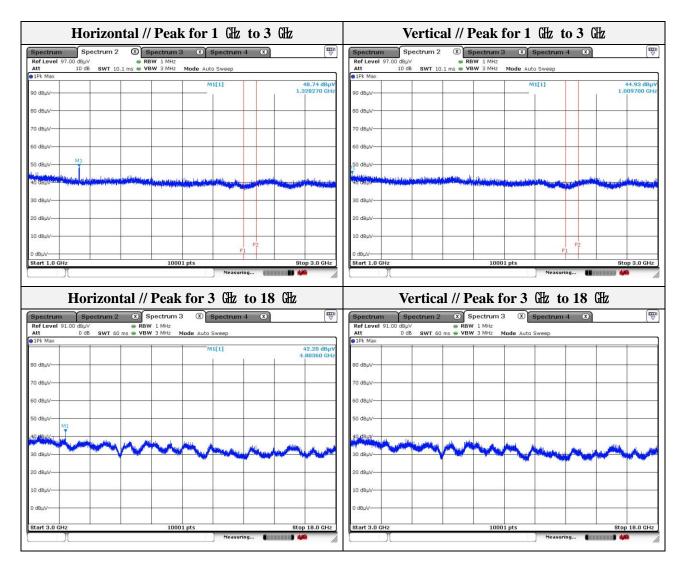
- Band edge

Frequency (Mb)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
2 337.71	41.74	Peak	Н	-0.87	-	40.87	74.00	33.13
2 360.99	40.91	Peak	V	-0.85	-	40.06	74.00	33.94

Restricted	d band // Horizontal	// Peak	Restricted ba	nd // Vertical // P	Peak
Spectrum 2	Spectrum 3 Spectrum 4	8 Spectrum			x x
Ref Level 100.00 dBµV Att 10 dB SWT 15.3	RBW 1 MHz Jus S VBW 3 MHz Mode Auto FFT	Ref Level	100.00 dBµV	3 MHz Mode Auto FFT	
1Pk Max		lPk Max		Hode Adtorra	
90 dBµV-	M2[1] M1[1]	41.74 dB⊯V 2.3377170 GHz 93.69 dBµV 2.4021710 GHz		M2[1] M1[1]	40.91 dB 2.3609940 0 92.18 dB 2.4021600 D
80 dBµV		80 dBµV			2.4021000 (4
70 dBµV-		70 dBµV			
60 dBµV		60 dBµV			
50 dBµV	M2	50 dBµV		M2	
30 dBuy	man wanter		manument	when you want	manna
20 dBuV		30 dBµV			
10 dBµV-		10 dB(8/			
F1 Start 2.3 GHz	10001 pts	F2 F1 Stop 2.405 GHz Start 2.3 G	H7	10001 pts	F2 Stop 2.405 GH
	Measuring.				Stop 2.403 GH



KES Co., Ltd. 3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr



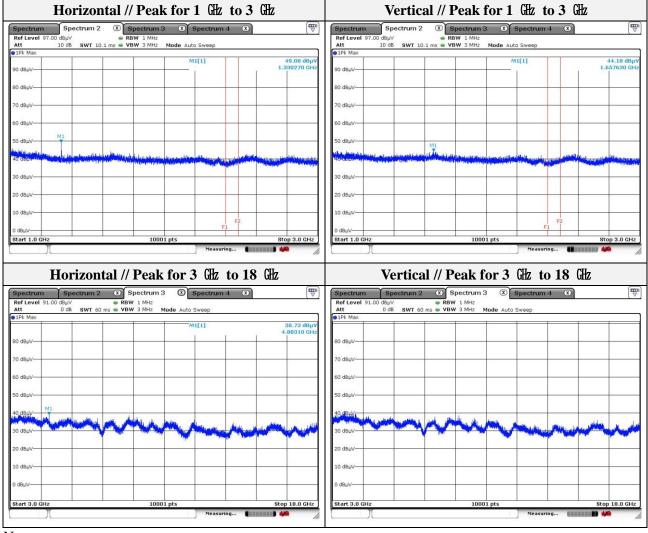
Note.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (51) of (83)

Mode:	BDR(Left unit)
Distance of measurement:	3 meter
Channel:	40

Frequency (MHz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµN/m)	Limit (dBµN/m)	Margin (dB)
1 330.27	49.08	Peak	Н	-7.48	-	41.60	74.00	32.40
1 657.63	44.18	Peak	V	-4.92	-	39.26	74.00	34.74
4 883.10	38.73	Peak	Н	7.71	-	46.44	74.00	27.56



Note.

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



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (52) of (83)

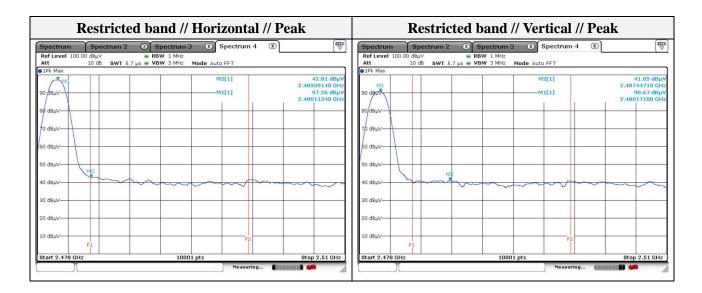
Mode:	BDR(Left unit)
Transfer rate:	1 Mbps
Distance of measurement:	3 meter
Channel:	78

- Spurious

Frequency (Mbz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
1 102.29	44.43	Peak	V	-8.85	-	35.58	74.00	38.42
1 331.27	48.12	Peak	Н	-7.47	-	40.65	74.00	33.35
4 961.10	37.98	Peak	Н	8.31	_	46.29	74.00	27.71

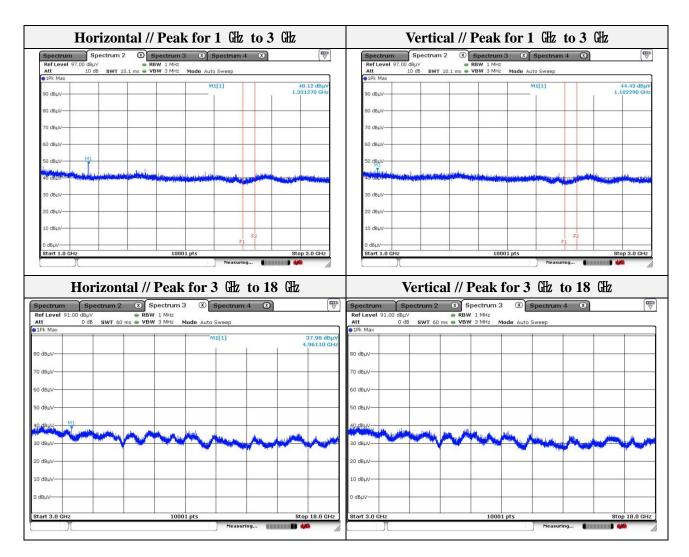
- Band edge

Frequency (Mbz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
2 483.59	42.81	Peak	Н	-0.77	-	42.04	74.00	31.96
2 487.45	41.05	Peak	V	-0.77	-	40.28	74.00	33.72





3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr



Note.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (54) of (83)

Mode:	EDR (Left unit)
Transfer rate:	3 Mbps(Worst case)
Distance of measurement:	3 meter
Channel:	00

- Spurious

Frequency (Mz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
1 327.67	48.76	Peak	Н	-7.50	-	41.26	74.00	32.74
1 690.43	45.53	Peak	V	-4.54	-	40.99	74.00	33.01
3 995.20	41.26	Peak	V	3.67	-	44.93	74.00	29.07
4 805.10	41.69	Peak	Н	7.11	-	48.80	74.00	25.20

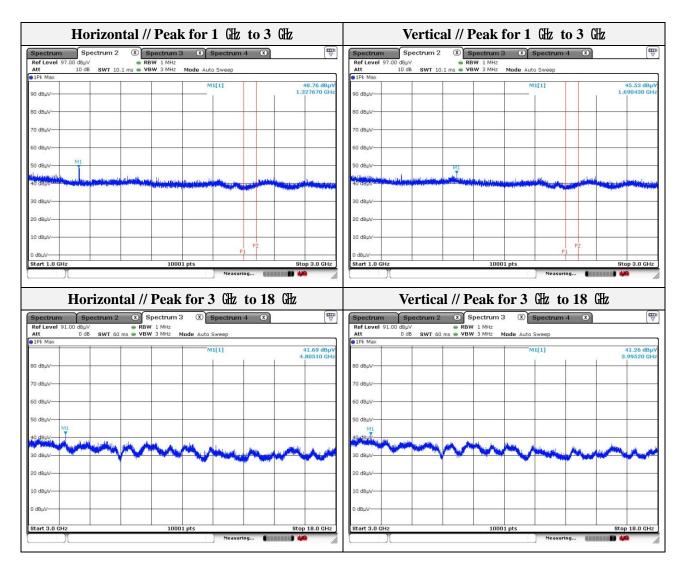
- Band edge

Frequency (Mbz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
2 357.86	40.91	Peak	V	-0.86	-	40.05	74.00	33.95
2 368.28	40.60	Peak	Н	-0.85	-	39.75	74.00	34.25

Spectrum	Spectrum 2	Spectrum 3	Spectrum 4 🕱		Spectrum	Spectrum 2	Spectrum 3 🛞	Spectrum 4 🙁	
Ref Level 100.0 Att		RBW 1 MHz	Nede Auto FFT		Ref Level 10		RBW 1 MHz WBW 3 MHz Mode		
1Pk Max	10 00 SWI 15.	s µs 🖶 ¥bw s kinz	Mode Adto FF1		IPk Max	10 00 SW1 15.5 ps	S STRINZ MODE	Auto PP 1	
90 dBµV			M2[1] 	40.60 2.368280 93.70 2.402160	0 GHz 0 dBµV 90 dBµV			M2[1] -M1[1]	40.91 dBµ 2.3609940 d4 92.18 d8µ 2.4021600 GH
30 dBµ∨					80 dBµV				
70 dBµV					70 dBµV				
50 dBµV					60 dBµV				
50 dBµV			M2		50 dBµV			12	
10 0 0 0 0 0 0 N 0	www	mound		mont		munun	wwwwwww	mont	mmm
30 dBµV					30 dBµV				
20 dBµV					20 dBµV				
IO dBµV				F2	10 dBµV-				F2



KES Co., Ltd. 3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr



Note.

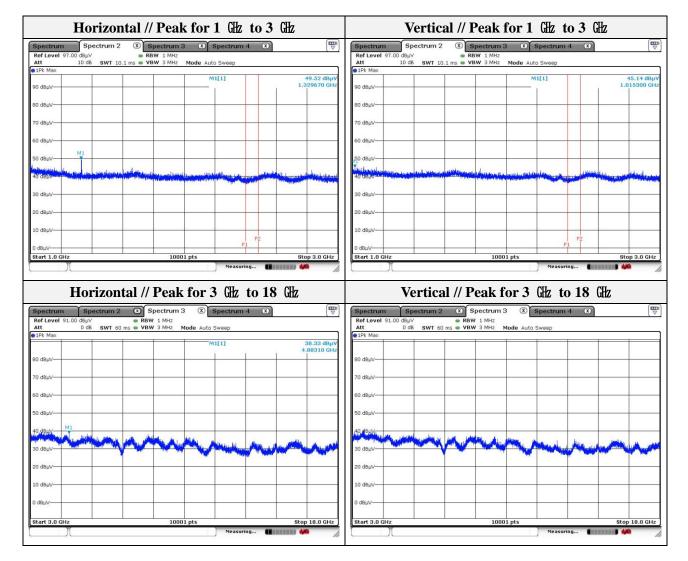


3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (56) of (83)

Mode:	EDR (Left unit)
Transfer rate:	3 Mbps(Worst case)
Distance of measurement:	3 meter
Channel:	40

Channel:

- Spurio	us							
Frequency (Mbz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµN/m)	Limit (dBµV/m)	Margin (dB)
1 015.30	45.14	Peak	V	-9.35	-	35.79	74.00	38.21
1 329.67	49.52	Peak	Н	-7.48	-	42.04	74.00	31.96
4 883.10	38.33	Peak	Н	7.71	-	46.04	74.00	27.96



Note.

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



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (57) of (83)

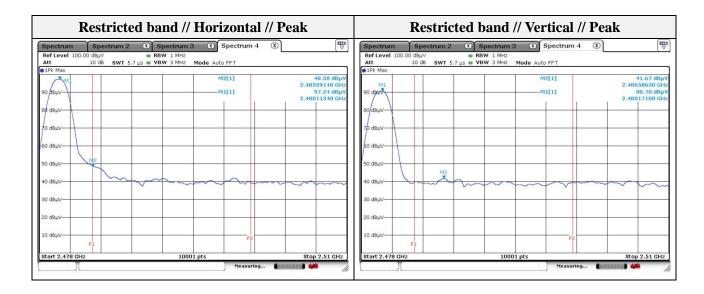
Mode:	EDR (Left unit)
Transfer rate:	3 Mbps(Worst case)
Distance of measurement:	3 meter
Channel:	78

- Spurious

Frequency (Mb)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
1 333.07	45.65	Peak	V	-7.46	-	38.19	74.00	35.81
1 333.67	47.80	Peak	Н	-7.46	-	40.34	74.00	33.66
4 961.10	37.07	Peak	Н	8.31		45.38	74.00	28.62

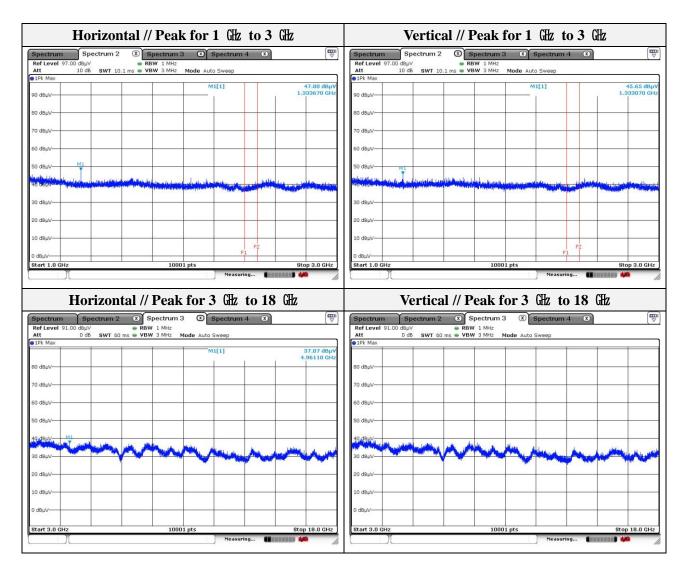
- Band edge

Frequency (Mb)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
2 483.59	48.58	Peak	Н	-0.77	-	47.81	74.00	26.19
2 486.58	41.67	Peak	V	-0.76	-	40.90	74.00	33.10





KES Co., Ltd. 3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr



Note.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (59) of (83)

Test results (18 GHz to 30	(Hz) – Worst case
Mode:	BDR (Left unit)
Transfer rate:	1 Mbps
Distance of measurement:	3 meter
Channel:	0 (Worst case)

	Horizontal		Spectrum 3 (***********************************					
Ref Level 91.00 dBμV Att 0 dB SWT 48 ms	Spectrum 3 Spectrum 4 RBW 1 MHz VBW 3 MHz Mode Auto Sweep	8						
e 1Pk Max			●1Pk Max					
80 dBµV-			80 dBµV					
70 dBµV			70 dBµV					
60 dBµV			60 dBµV					
50 dBµV			50 dBµV					
40 dBµV	and the last of the last	at materia	40 dBµV				- internet	
20 dBuV			20 dBµV-	A REAL PROPERTY AND A REAL				
10 dBuV			10 dBµV-					
0 dBuV			0 dBµV-					
Start 18.0 GHz	10001 pts	Stop 30.0 GHz	Start 18.0 GHz		10001 pts		Stop 30.0 GHz	
I.	Measuring				20001 013	Measuring 🚺		

Note.

1. No spurious emission were detected above 18 GHz.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (60) of (83)

Mode:	BDR (Right unit)
Distance of measurement:	3 meter
Channel:	00

- Spurious

Frequency (Mbz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
1 329.47	48.07	Peak	Н	-7.49	-	40.58	74.00	33.42
1 664.43	45.42	Peak	V	-4.84	-	40.58	74.00	33.42
4 805.10	41.30	Peak	Н	7.11	-	48.41	74.00	25.59

Band edge

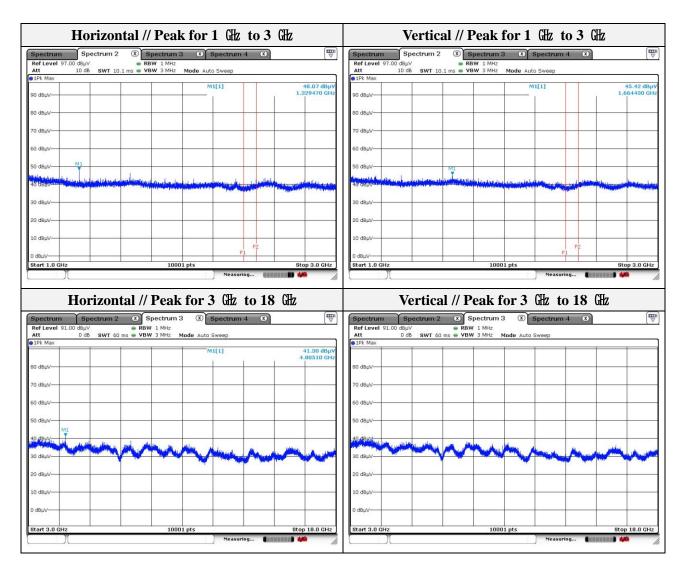
Frequency (MHz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
2 313.82	40.92	Peak	V	-0.90	-	40.02	74.00	33.98
2 318.15	41.01	Peak	Н	-0.89	-	40.12	74.00	33.88

Spectrum Spectrum 2	Spectrum 3 Spectrum 4	8	Spectrum Spectru	um 2 🛞 Spectrum 3 🛞 Spectrum	14 ×
Ref Level 100.00 dBµV	RBW 1 MHz	(-)	Ref Level 100.00 dBµV	RBW 1 MHz	
Att 10 dB SWT 15	3.3 μs 🖶 VBW 3 MHz Mode Auto FFT		Att 10 dB s	SWT 15.3 µs 🖷 VBW 3 MHz Mode Auto FFT	
PIPK Max	M2[1]	41.01 dBuV	• IPK Max	M2[1]	40.92 dBi
	m2[1]	2.3181580 GHz		(usfr]	2.3138220
0 dBµV-	-M1[1]	93.69 dbuV	90 dBµV		92.20 d
		2.4021600 GHz			2.4021710
30 dBuV			80 dBµV		+
0 dBuV			70 dBµV		
) dBuV-			60 dBuV-		
o dopv			do dopv		
0 dBuV-			50 dBµV-		
			1.0		
M2	serves we see the memory of the set		M2	1 2 - 1 2 - 1 2 2 2 2 2 2 2 2 2 2 2 2 2	
and the work when the second	more many many many	mont	A9 dely monor	manuturent	Mr. Vr. Proposition
		e see a see a see		2000 N	
ю dвµv-			30 dBµV-		
22			~		
0 dBµV			20 dBµV		
0 dBµV		F2	10 dBµV		F2
F1			F1		
tart 2.3 GHz	10001 pts	Stop 2.405 GHz	Start 2.3 GHz	10001 pts	Stop 2.405 G



KES Co., Ltd. 3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr

Report No.: KES-RF1-22T0056 Page (61) of (83)

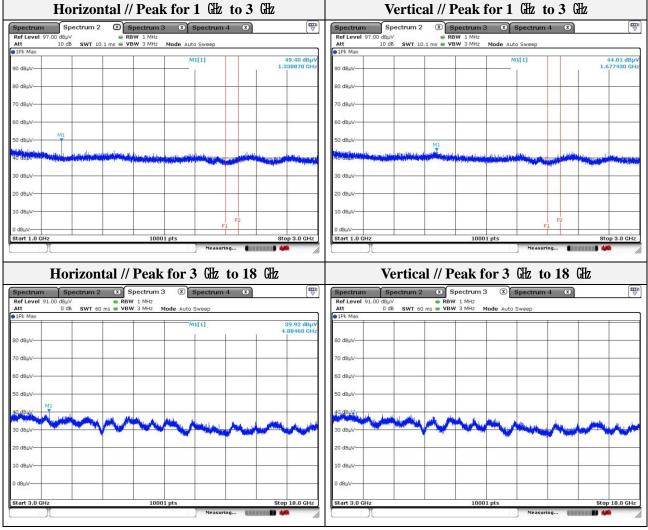


Note.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (62) of (83)

Mode:		BDR (R	Right unit)					
Distance of	f measurem	ent: 3 meter						
Channel:		40						
Frequency (MHz)	Level (dBµV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµN/m)	Limit (dBµV/m)	Margin (dB)
1 330.87	49.40	Peak	Н	-7.48	-	41.92	74.00	32.08
1 677.43	44.01	Peak	V	-4.69	-	39.32	74.00	34.68
4 884.60	39.62	Peak	Н	7.72		47.64	74.00	26.36



Note.

This report shall not be reproduced except in full, without the written approval of KES Co., Ltd. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. The authenticity of the test report, contact shchoi@kes.co.kr



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (63) of (83)

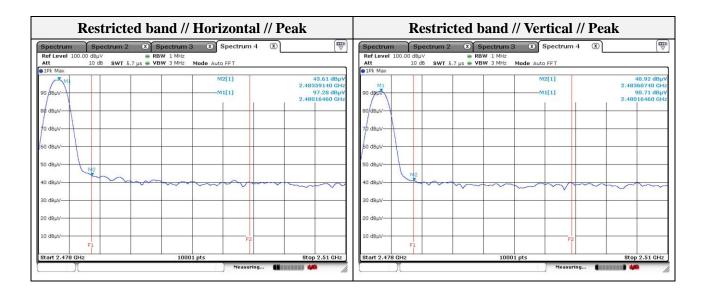
Mode:	BDR (Right unit)
Transfer rate:	1 Mbps
Distance of measurement:	3 meter
Channel:	78

- Spurious

Frequency (Mbz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
1 247.88	44.65	Peak	V	-7.99	-	36.66	74.00	37.34
1 329.27	49.70	Peak	Н	-7.49	-	42.21	74.00	31.79
4 959.60	38.50	Peak	Н	8.30	-	46.80	74.00	27.20

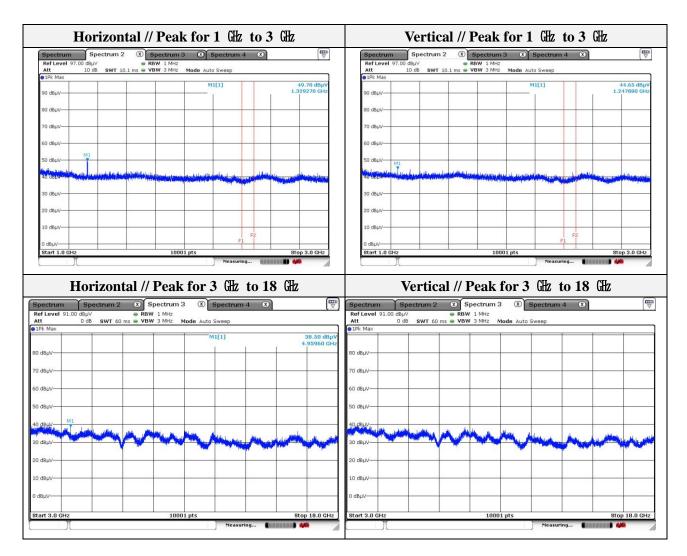
- Band edge

Frequency (Mbz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµN/m)	Limit (dBµN/m)	Margin (dB)
2 483.59	43.61	Peak	Н	-0.77	-	42.84	74.00	31.16
2 483.60	40.92	Peak	V	-0.77	-	40.15	74.00	33.85





3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr



Note.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (65) of (83)

Mode:	EDR (Right unit)
Transfer rate:	3 Mbps(Worst case)
Distance of measurement:	3 meter
Channel:	00

- Spurious

Frequency (Mz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
1 331,07	45.24	Peak	V	-7.48	-	37.76	74.00	36.24
1 333.07	48.53	Peak	Н	-7.46	-	41.07	74.00	32.93
4 803.60	41.03	Peak	Н	7.10	-	48.13	74.00	25.87

- Band edge

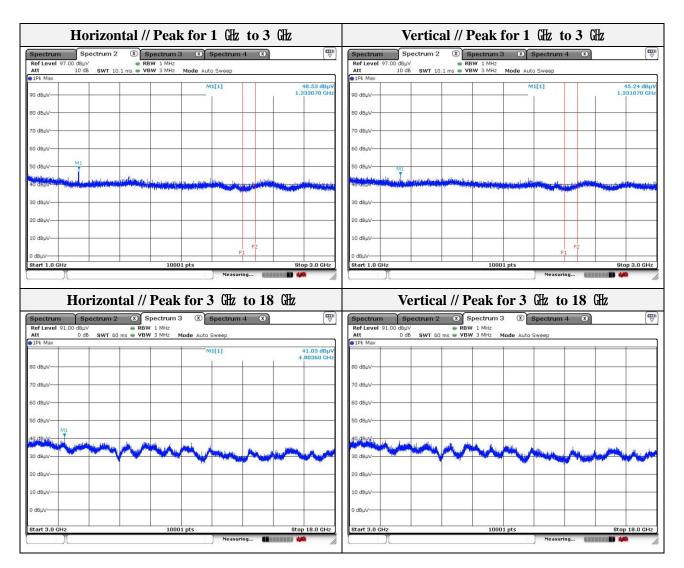
Frequency (Mb)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
2 341.67	40.93	Peak	V	-0.87	-	40.06	74.00	33.94
2 368.28	40.60	Peak	Н	-0.85	-	39.75	74.00	34.25

Spectrum	Spectrum 2	Spectrum 3	Spectrum 4		Spectrum	Spectrum 2	× Spectrum	3 (X) Spectrum 4	8
Ref Level 100	a second test test to a second test to a second	BBW 1 MHz	oposition 4	V	Ref Level 100	The second se	BBW 1 MHz	THE SHOP SHOP SHOP SHOP SHOP SHOP SHOP SHOP	
Att		.3 µs . VBW 3 MHz	Mode Auto FFT		Att		5.3 µs . VBW 3 MHz		
1Pk Max					1Pk Max				
			M2[1]	40.60 dBuy				M2[1]	40.93 dE
io deuv			-M1[1]	2.3682800 GHŽ 96.23 dBitV	90 dBuV-			M1[1]	2.3416760
o uspv			- MILLI	2.4021600 GHz	90 ubpv			- mit[1]	2.4021710
IO dBuV					80 dBuV				
					00 0000				
0 dBuV					70 dBuV				
o dopv					/ G GDDV				
D dBuV-					60 dBuV-				
5 GDDA					00 0000				
0 dBuV-					50 dBuV-				
, appr			M2		oo aop.		645		
COBHY A	Another Area	month		Numper N	AR DRUX	0.0	A		
		man	and Marine A.	man . A.a	man	mon	montone	have my have	American Mars.
) dBuV-					30 dBµV				
0000000					2220000000				
) dBµV					20 dBµV-				
0 dBµV-				E2	10 dBµV				F2
F1				re	F1				F2
tart 2.3 GHz		10001		Stop 2.405 GHz	Start 2.3 GHz		100	01 pts	Stop 2.405 G
art 2.3 GHZ		10001	pts	Stop 2.405 GHZ	start 2.3 GHZ		100	U1 pts	stop 2.405 G



KES Co., Ltd. 3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr

Report No.: KES-RF1-22T0056 Page (66) of (83)



Note.

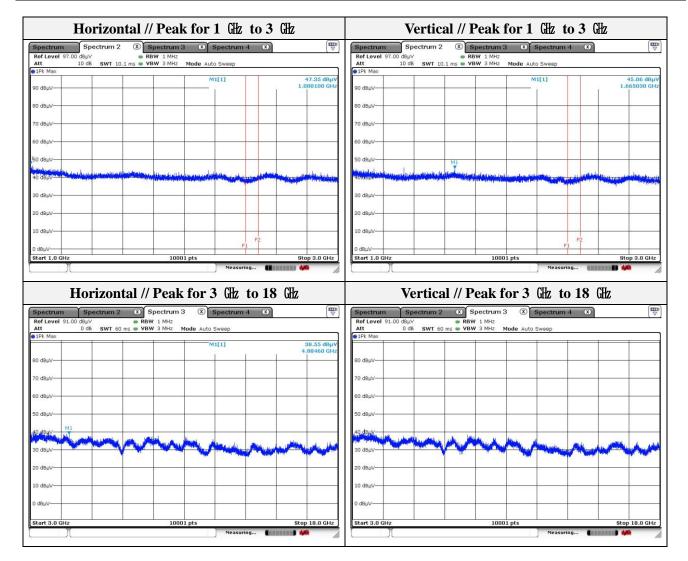


3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (67) of (83)

Mode:	EDR (Right unit)
Transfer rate:	3 Mbps(Worst case)
Distance of measurement:	3 meter
Channel:	40

Channel:

- Spurio	us							
Frequency (MHz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµN/m)	Limit (dBµN/m)	Margin (dB)
1 000.10	47.35	Peak	Н	-9.44	-	37.91	74.00	36.09
1 665.03	45.06	Peak	V	-4.83	-	40.23	74.00	33.77
4 884.60	38.55	Peak	Н	7.72	-	46.27	74.00	27.73



Note.

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



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (68) of (83)

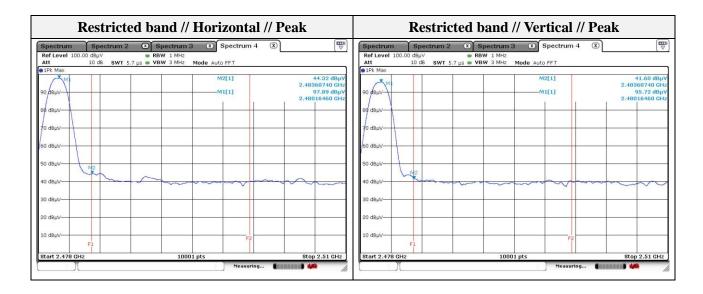
Mode:	EDR (Right unit)
Transfer rate:	3 Mbps(Worst case)
Distance of measurement:	3 meter
Channel:	78

Spurious

Frequency (MHz)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµV/m)	Limit (dBµN/m)	Margin (dB)
1 070.29	44.74	Peak	V	-9.03	-	35.71	74.00	38.29
1 330.27	49.97	Peak	Н	-7.48	-	42.49	74.00	31.51
4 959.60	37.01	Peak	Н	8.30	-	45.31	74.00	28.69

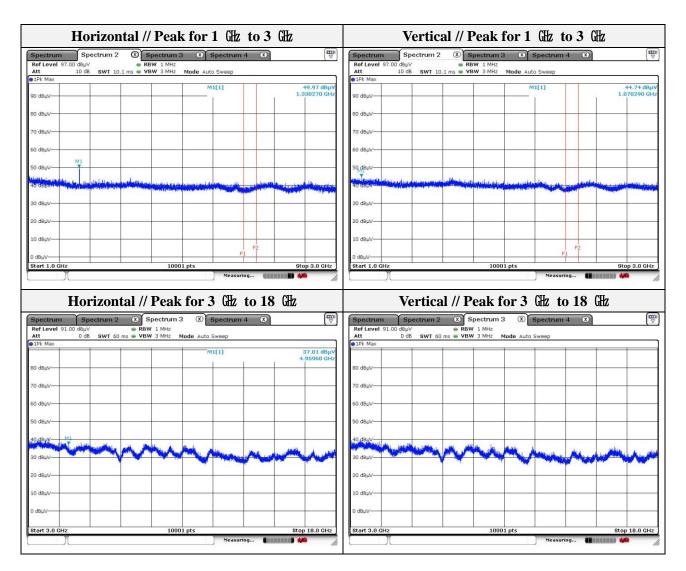
- Band edge

Frequency (Mb)	Level (dBµN)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBµN/m)	Limit (dBµN/m)	Margin (dB)
2 483.60	44.32	Peak	Н	-0.77	-	43.55	74.00	30.45
2 483.60	41.60	Peak	V	-0.77	-	40.83	74.00	33.17





KES Co., Ltd. 3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr



Note.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (70) of (83)

Test results (18 GHz to 30	(Hz) – Worst case		
Mode:	BDR (Right unit)		
Transfer rate:	1 Mbps		
Distance of measurement:	3 meter		
Channel:	0 (Worst case)		

Horizontal	Vertical						
Spectrum Spectrum Spectrum Spectrum Spectrum Spectrum Spectrum Spectrum Alt Spectrum Spectrum	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Image: Constraint of the system is a spectrum 4 Image: Constraint of the sy						
1Pk Max		1Pk Max		1	1 1		
80 d8µV		80 dBµV					
70 dBµV		70 dBµV					
60 dBµV-		60 dBµV					
50 dBµV		50 dBµV					
40 dBµV		40 dBµV					
A DESCRIPTION OF THE OWNER OF THE	and the second s	No company market	-	wanted beaution	-	and the second designed where	
20 dBµV-		20 dBµV					
10 dBµV		10 dBµV		2			
0 dBµV		0 dBµV					
Start 18.0 GHz 10001 pts	Stop 30.0 GHz	Start 18.0 GHz		10001 pts		Stop 30	0.0 GHz
) Measuri	ng 🚺 🗰 🥢				Measuring	(6

Note.

1. No spurious emission were detected above 18 GHz.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (71) of (83)

3.8. Conducted band edge and out of band emissions

Test procedure

KDB 558074 v05r02 & ANSI 63.10-2013



Test setting

- 1. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions(e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.
- 2. RBW = 100 kHz
- $3. \text{VBW} \geq 300 \text{ kHz}$
- 4. Detector = Peak
- 5. Number of sweep points $\geq 2 \times \text{Span/RBW}$
- 7. Trace mode = max hold
- 8. Sweep time = auto couple
- 9. The trace was allowed to 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))

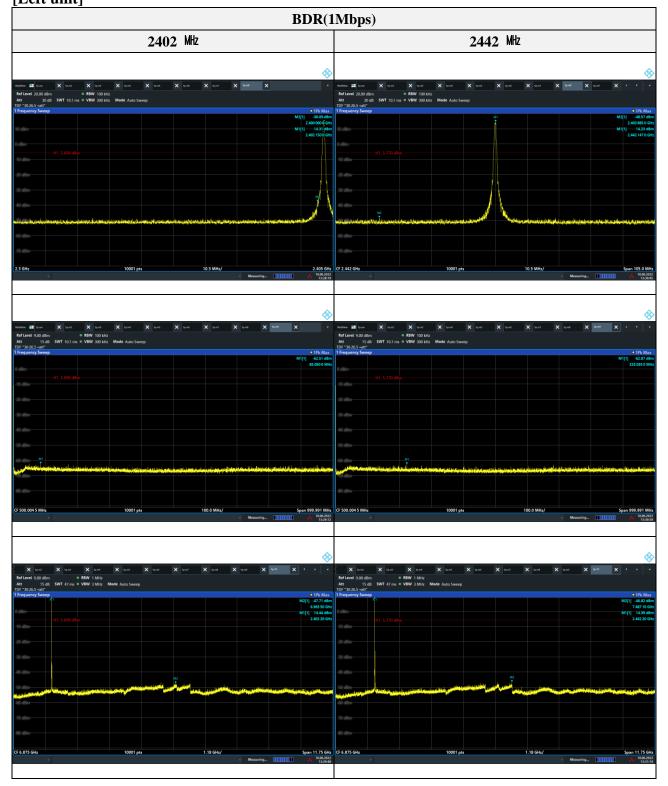
Limit

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.



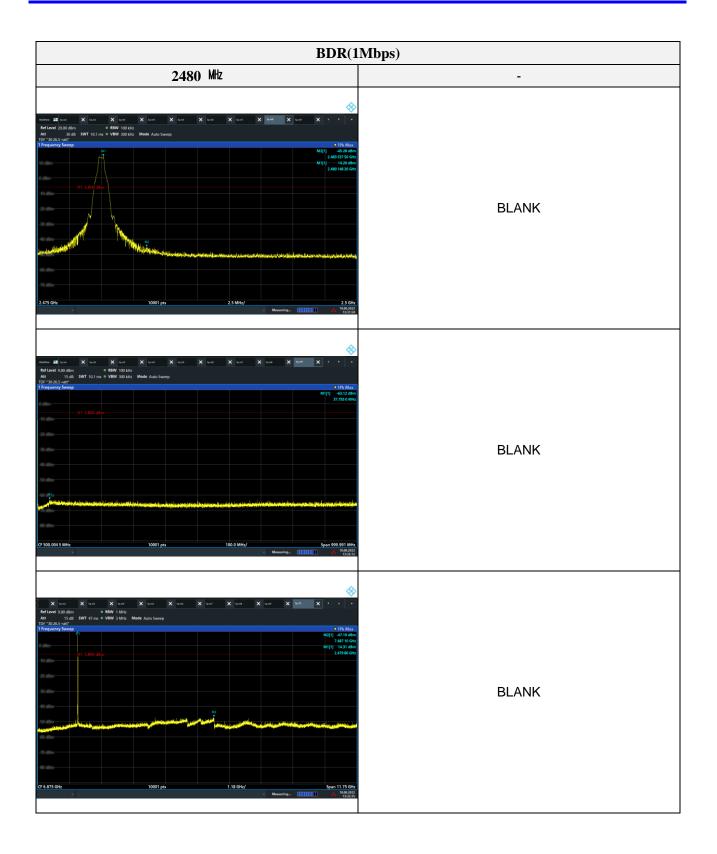
3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (72) of (83)

Test results [Left unit]





3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (73) of (83)



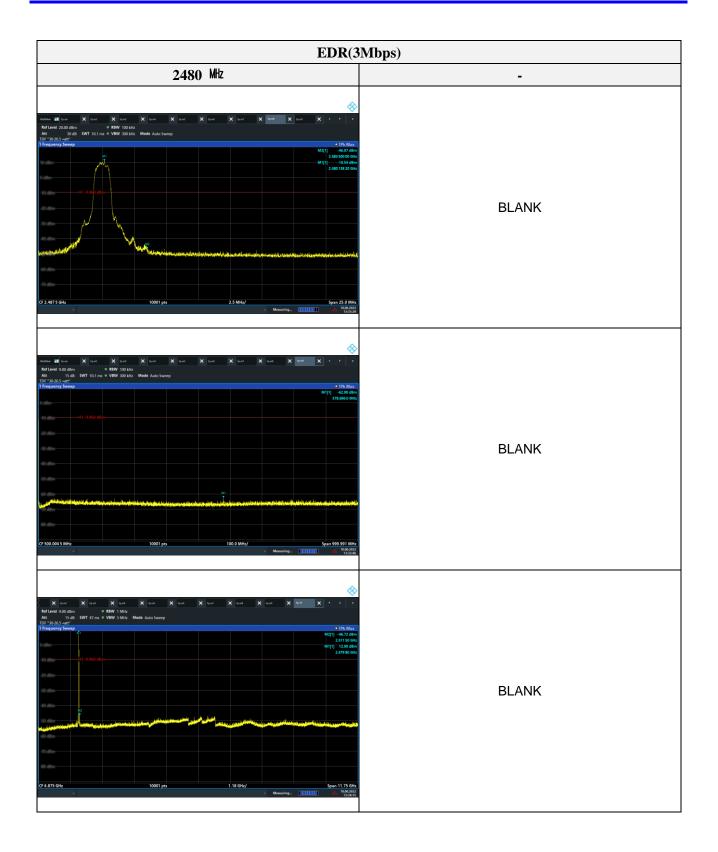


3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (74) of (83)



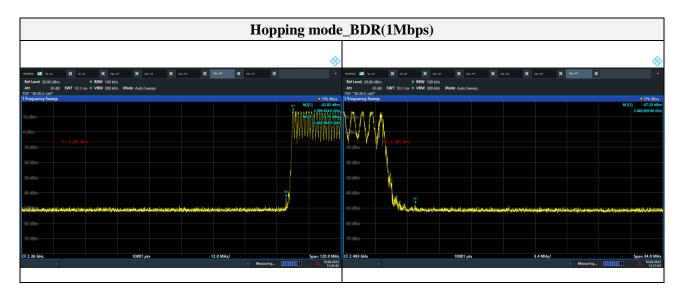


3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (75) of (83)





3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (76) of (83)

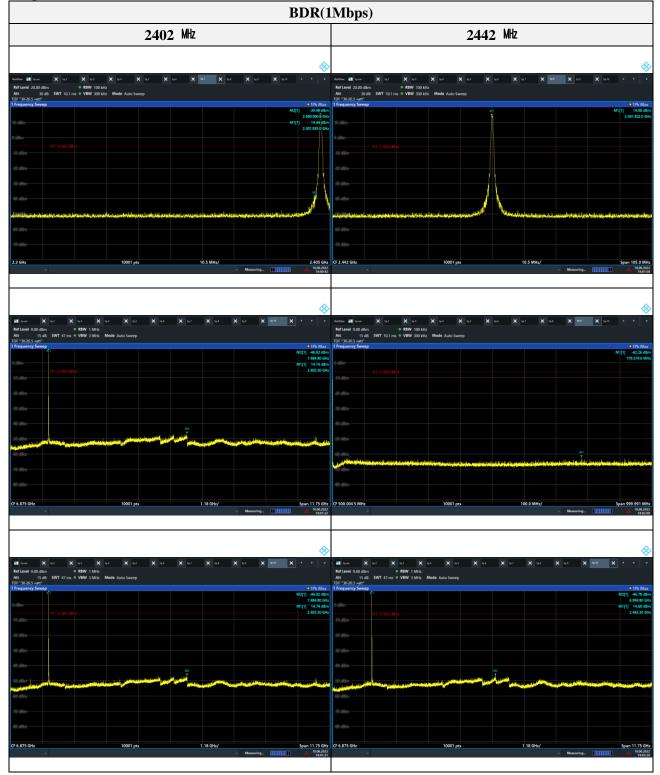






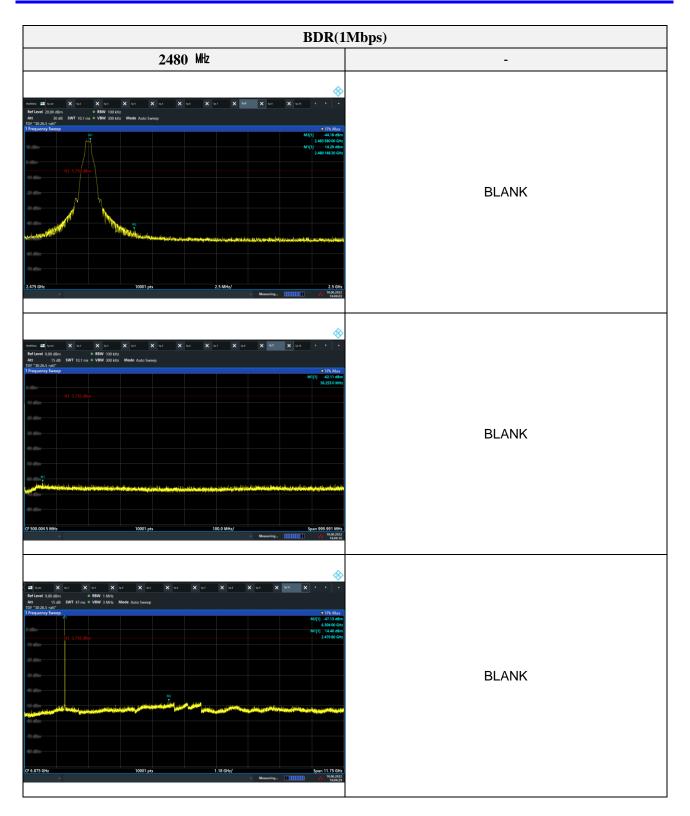
3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (77) of (83)

[Right unit]



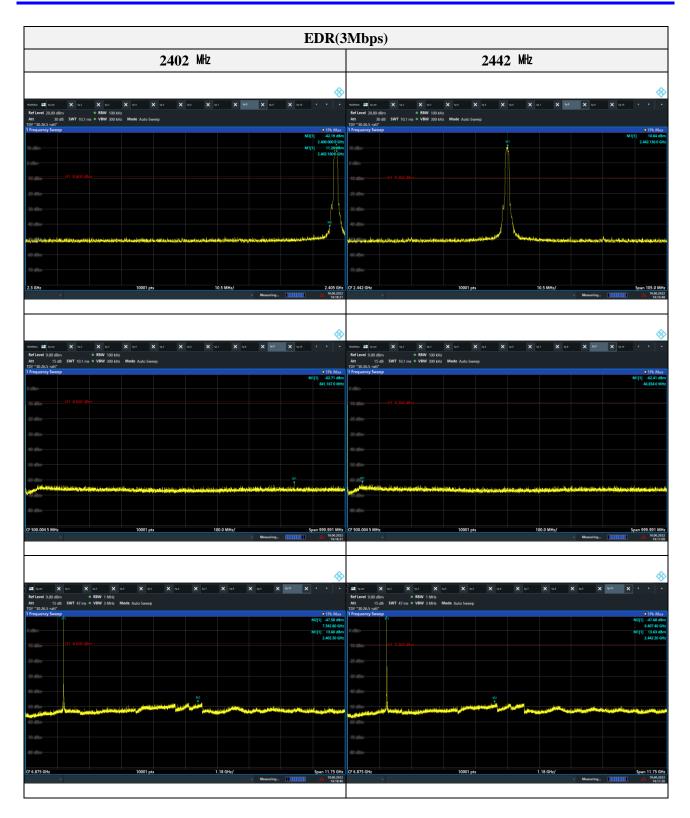


3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (78) of (83)





3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (79) of (83)



This report shall not be reproduced except in full, without the written approval of KES Co., Ltd. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. The authenticity of the test report, contact shchoi@kes.co.kr

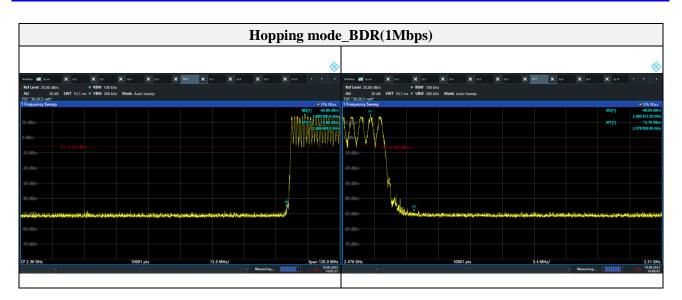


3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (80) of (83)

EDR(3Mbps)						
2480 MHz	-					
America El face X for X	BLANK					
In more set to a set	BLANK					
Image: Second	BLANK					



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (81) of (83)







3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-RF1-22T0056 Page (82) of (83)

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

Appendix A. Measurement equipment

Peripheral devices

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