

**KCTL Inc.**

65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

Report No.:  
KR20-SRF0037

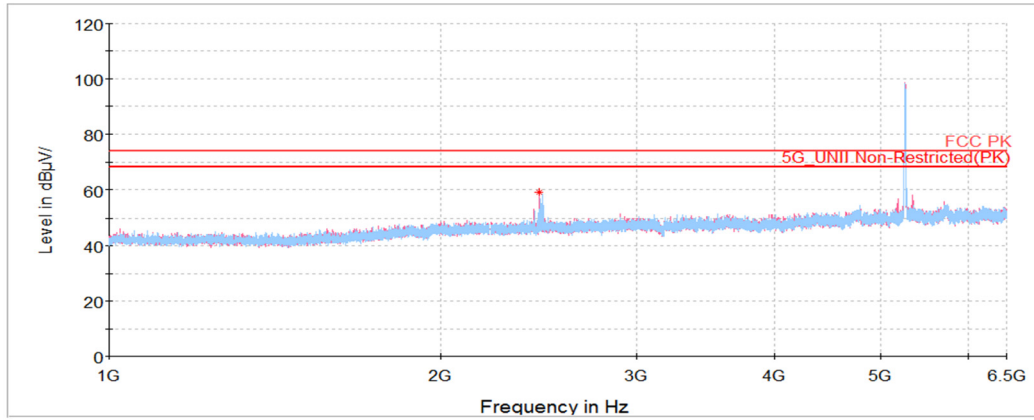
Page (113) of (206)

**KCTL****802.11a UNII-2A****Lowest Channel (5 260 MHz)**

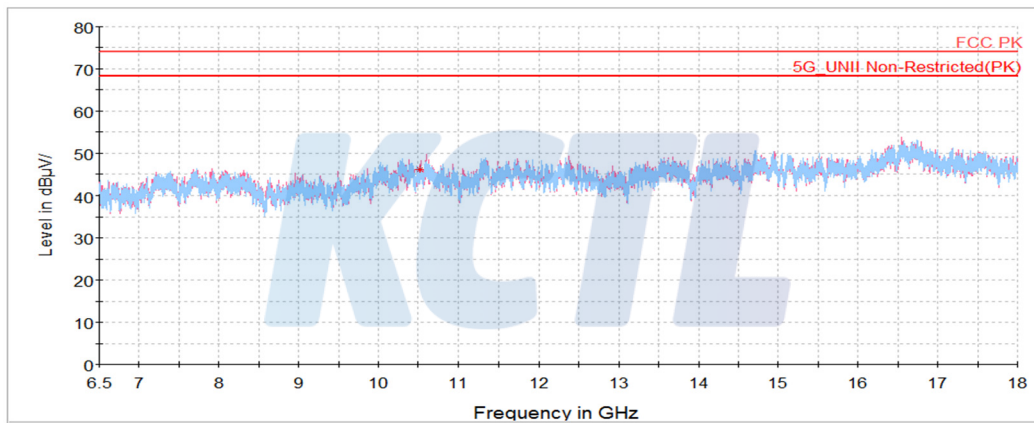
Frequency (MHz)	Pol. (V/H)	Reading (dB( $\mu$ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
2 450.28	V	75.42	32.06	-48.42	-	59.06	68.20	9.14
10 519.25	V	56.85	37.41	-48.20	-	46.06	68.20	22.14
<b>Average Data</b>								
<b>No spurious emissions were detected within 20 dB of the limit</b>								

**KCTL**

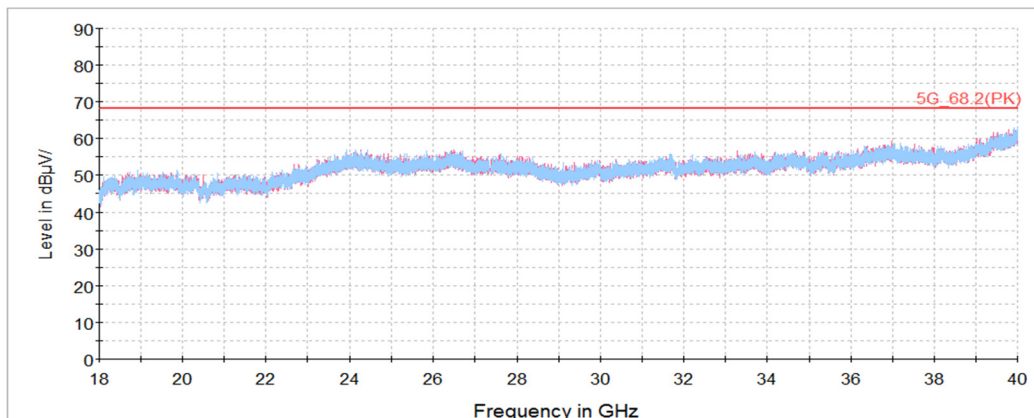
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 40 GHz**



**KCTL Inc.**

65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

Report No.:  
KR20-SRF0037

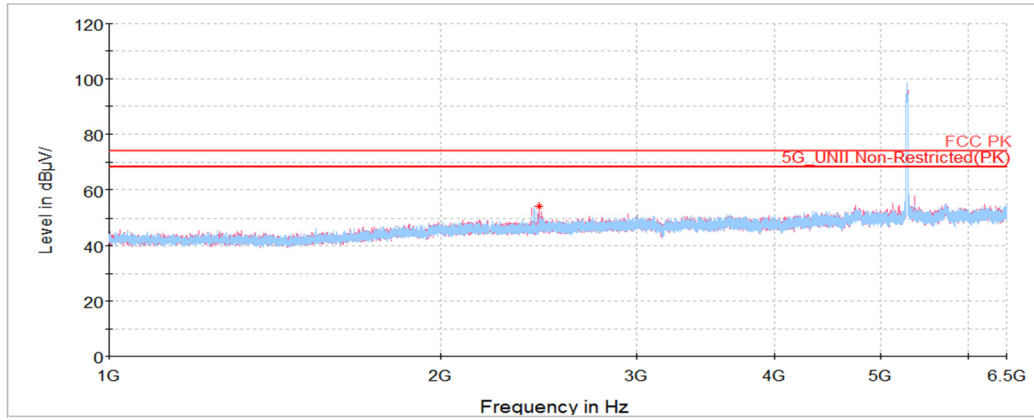
Page (115) of (206)

**Middle Channel (5 280 MHz)**

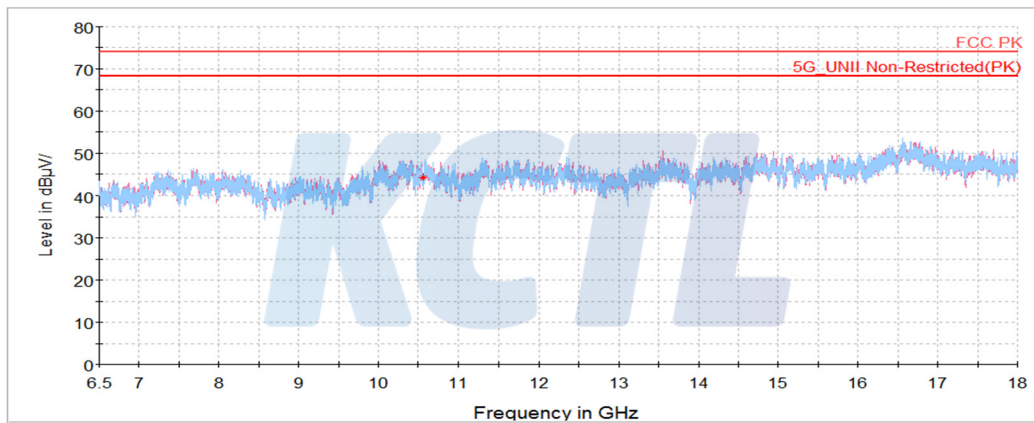
Frequency (MHz)	Pol. (V/H)	Reading (dB( $\mu$ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
2 447.36	V	70.68	32.06	-48.44	-	54.30	68.20	13.90
10 560.58	H	55.27	37.44	-48.48	-	44.23	68.20	23.97
<b>Average Data</b>								
<b>No spurious emissions were detected within 20 dB of the limit</b>								



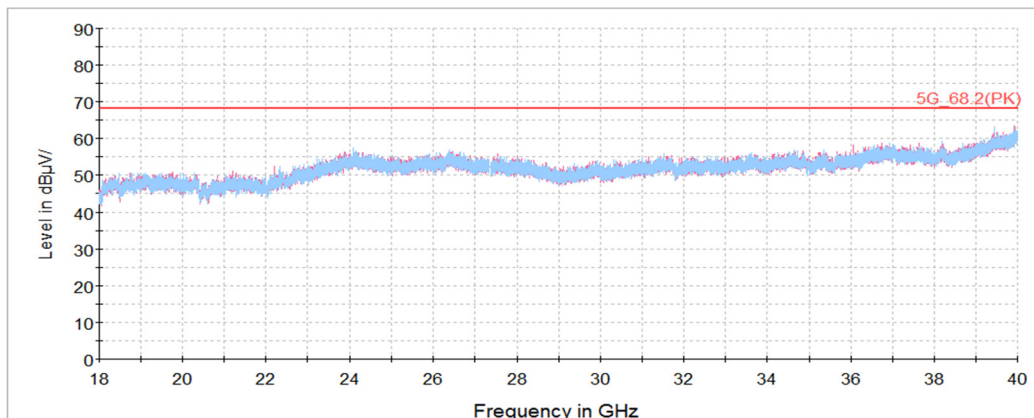
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 40 GHz**



# KCTL Inc.

65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

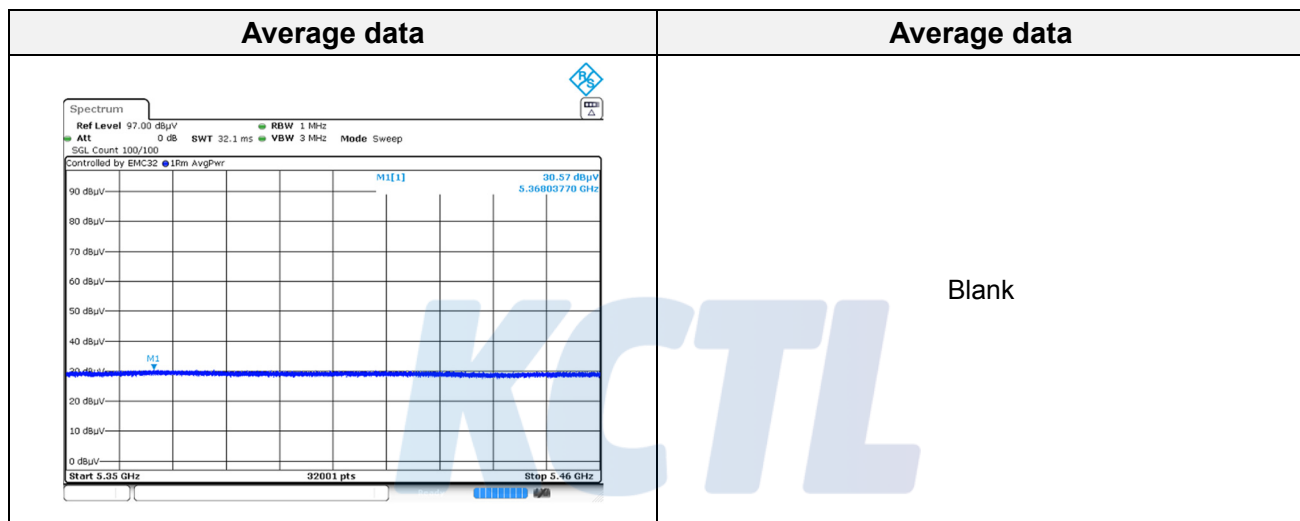
Report No.:  
KR20-SRF0037

Page (117) of (206)

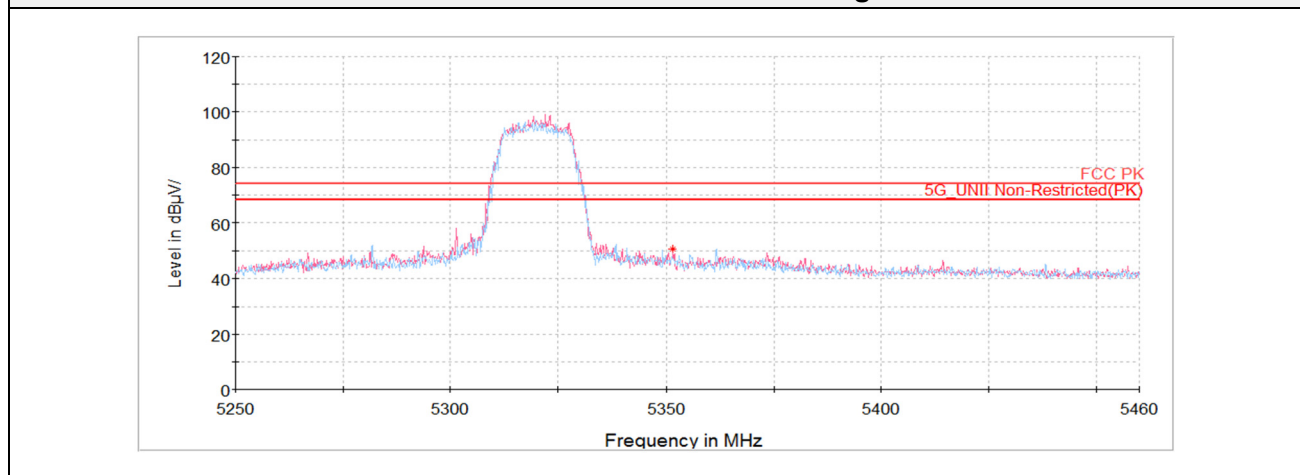


## Highest Channel (5 320 MHz)

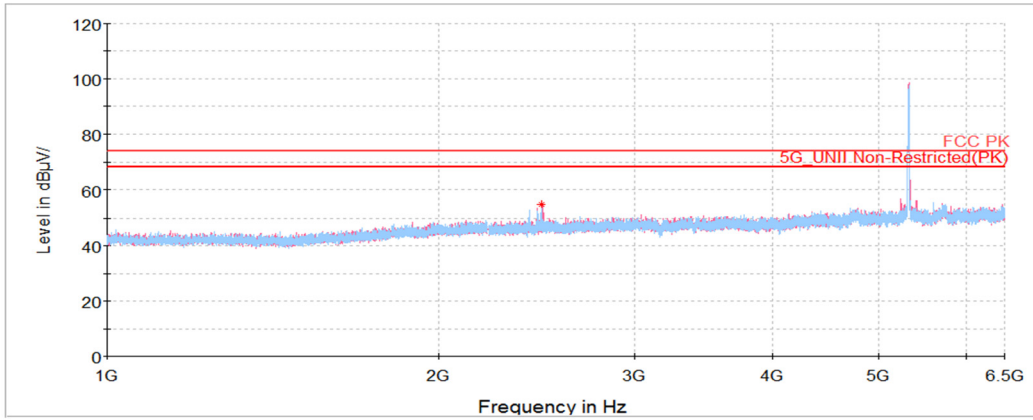
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
<b>Peak data</b>								
2 470.05	V	71.27	32.08	-48.28	-	55.07	68.20	13.13
5 368.04 <sup>1)</sup>	V	43.06	34.34	-26.80	-	50.60	74.00	23.40
10 640.00 <sup>1)</sup>	H	58.84	37.48	-49.00	-	47.32	74.00	26.68
<b>Average Data</b>								
5 368.04 <sup>1)</sup>	V	30.57	34.34	-26.80	0.30	38.41	54.00	15.59



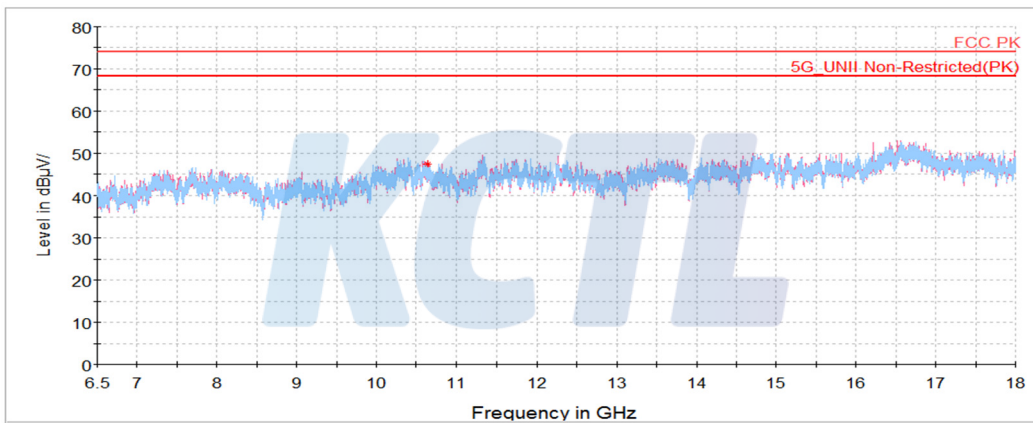
## Horizontal/Vertical for Band-edge



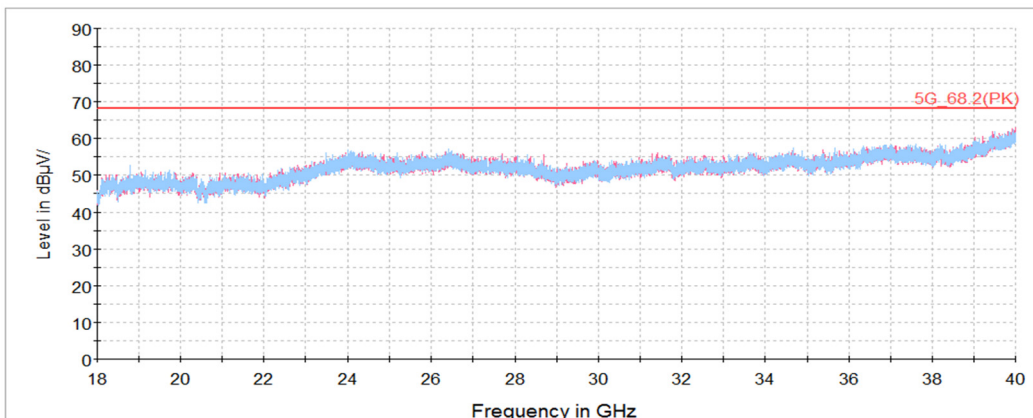
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 40 GHz**



**KCTL Inc.**

65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

Report No.:  
KR20-SRF0037

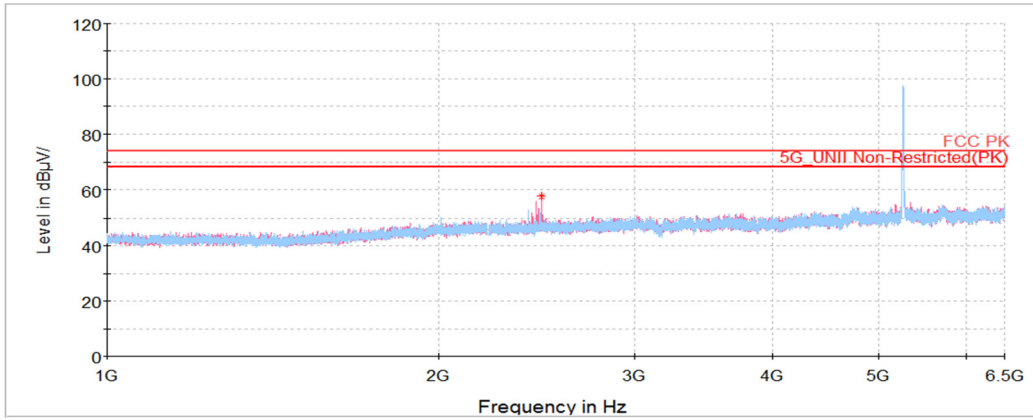
Page (119) of (206)

**KCTL****802.11n HT20 UNII-2A****Lowest Channel (5 260 MHz)**

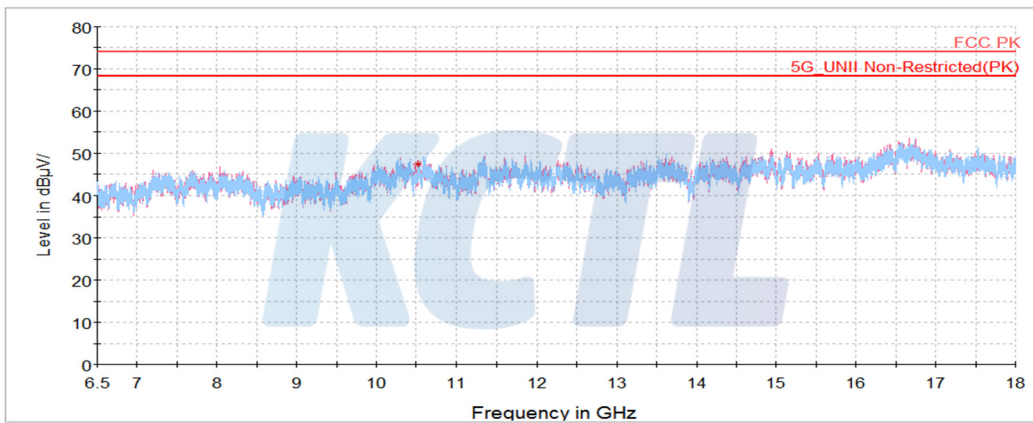
Frequency (MHz)	Pol. (V/H)	Reading (dB( $\mu$ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
2 470.91	V	73.87	32.08	-48.28	-	57.67	68.20	10.53
10 520.33	V	58.13	37.41	-48.21	-	47.33	68.20	20.87
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

**KCTL**

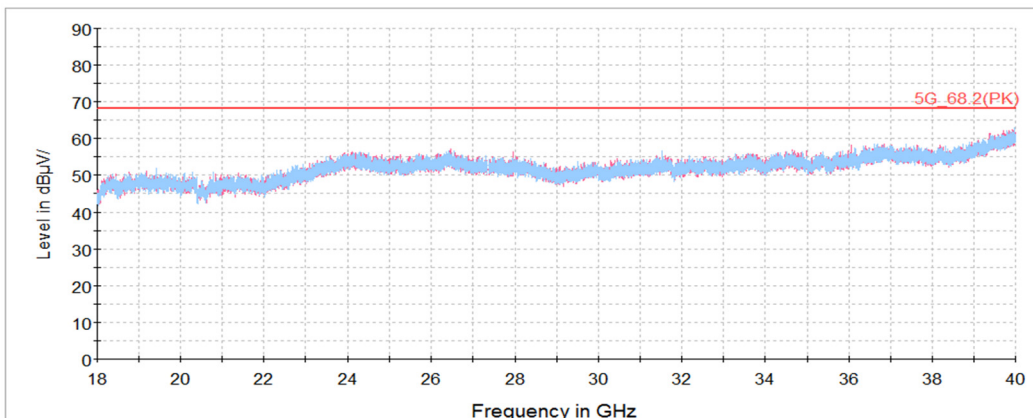
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 40 GHz**





**KCTL Inc.**

65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

Report No.:  
KR20-SRF0037

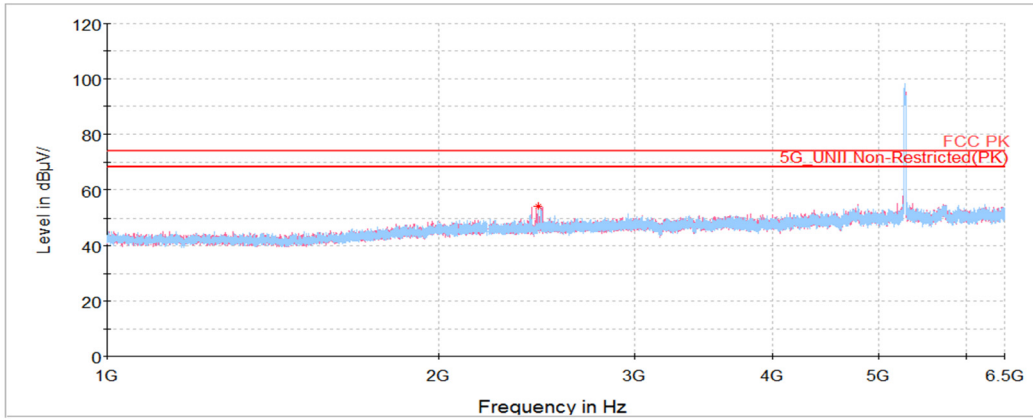
Page (121) of (206)

**KCTL****Middle Channel (5 280 MHz)**

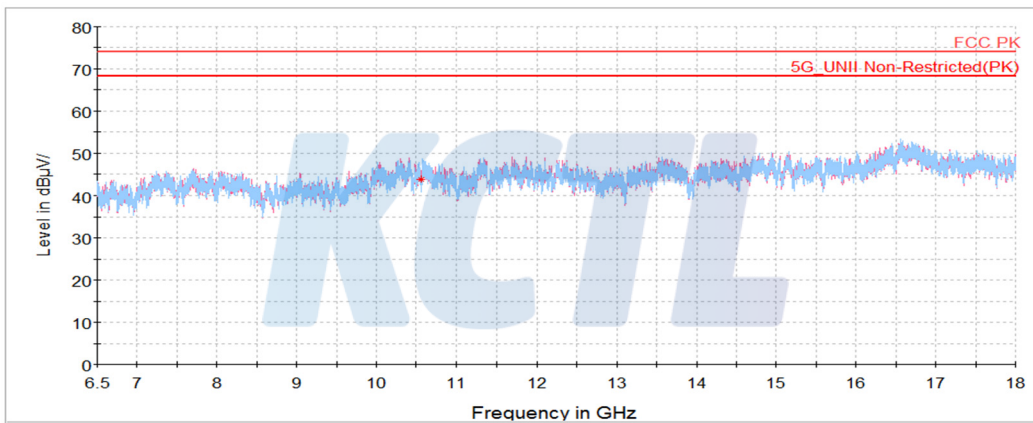
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu V$ ))	(dB)	(dB)	(dB)	(dB( $\mu V/m$ ))	(dB( $\mu V/m$ ))	(dB)
<b>Peak data</b>								
2 454.92	V	70.64	32.06	-48.39	-	54.31	68.20	13.89
10 560.94	H	54.80	37.44	-48.48	-	43.76	68.20	24.44
<b>Average Data</b>								
<b>No spurious emissions were detected within 20 dB of the limit</b>								

**KCTL**

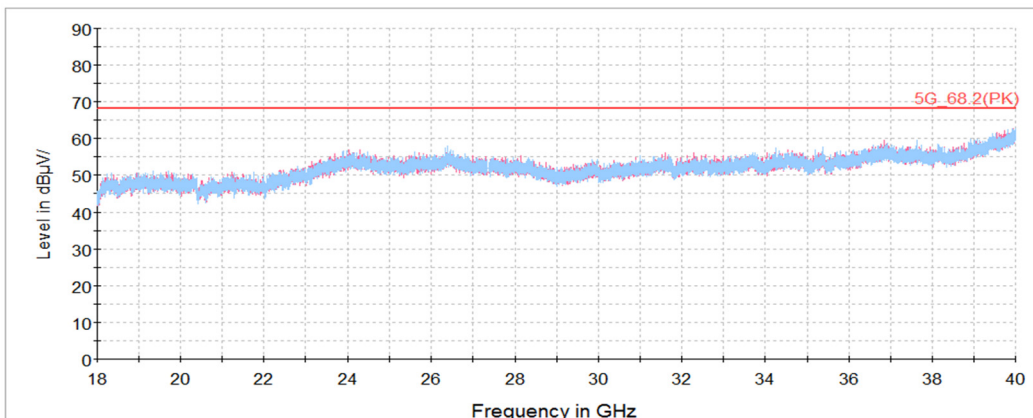
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 40 GHz**



**KCTL Inc.**

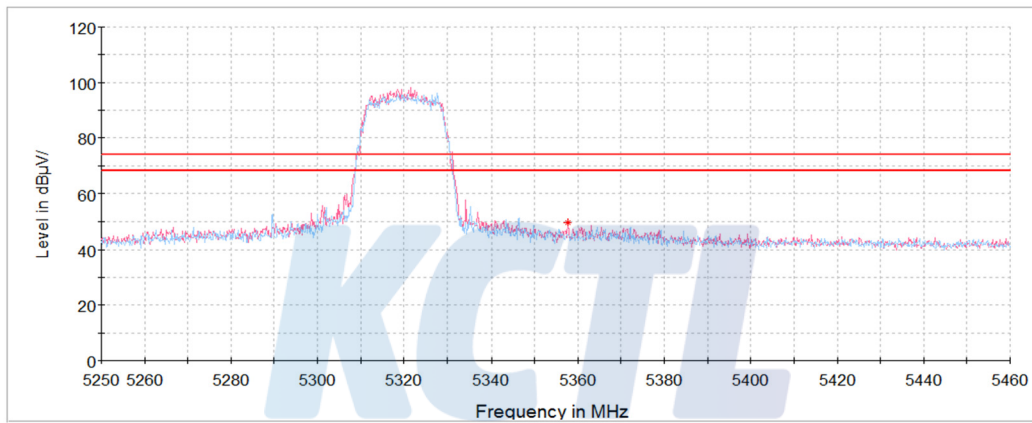
65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

Report No.:  
KR20-SRF0037

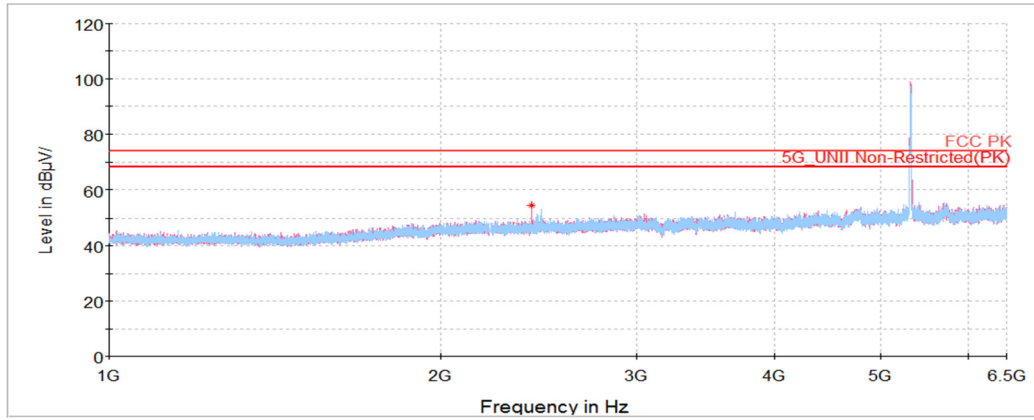
Page (123) of (206)

**Highest Channel (5 320 MHz)**

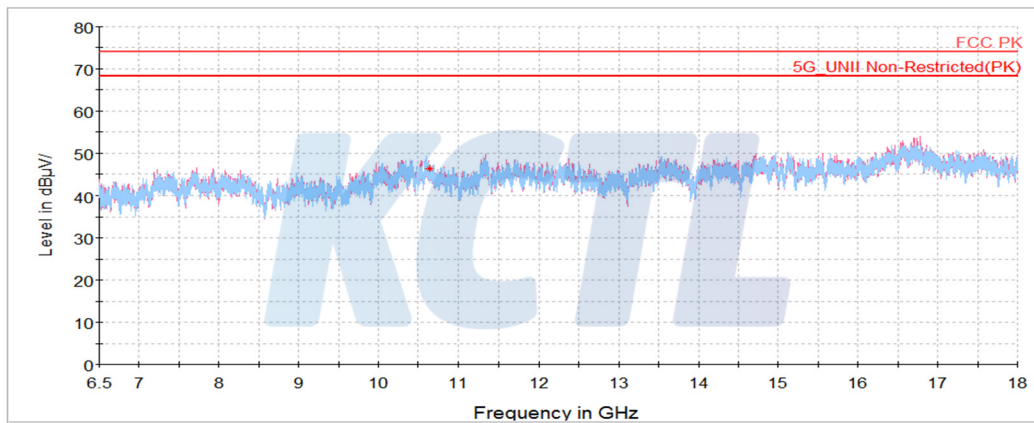
Frequency (MHz)	Pol. (V/H)	Reading (dB( $\mu$ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
2 411.95	V	71.31	32.03	-48.68	-	54.66	68.20	13.54
5 357.72 <sup>1)</sup>	V	42.27	34.33	-26.82	-	49.78	74.00	24.22
10 639.64 <sup>1)</sup>	V	57.78	37.48	-49.00	-	46.26	74.00	27.74
<b>Average Data</b>								
<b>No spurious emissions were detected within 20 dB of the limit</b>								

**Horizontal/Vertical for Band-edge**

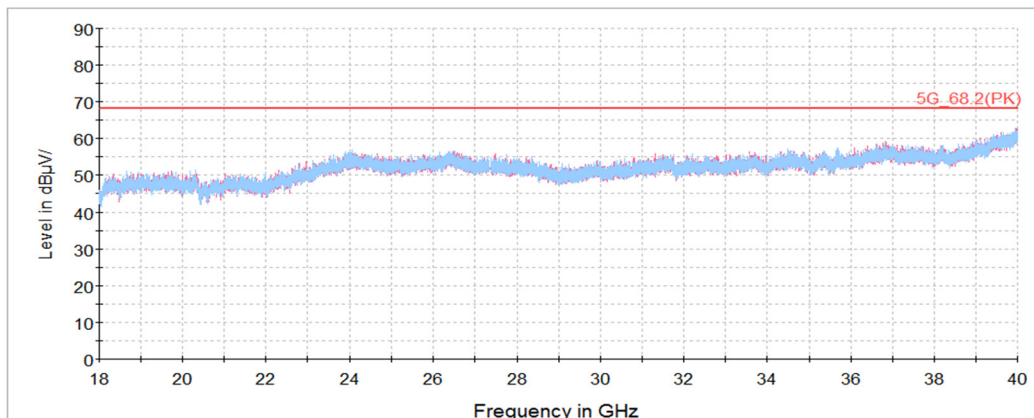
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 40 GHz**



**KCTL Inc.**

65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

Report No.:  
KR20-SRF0037

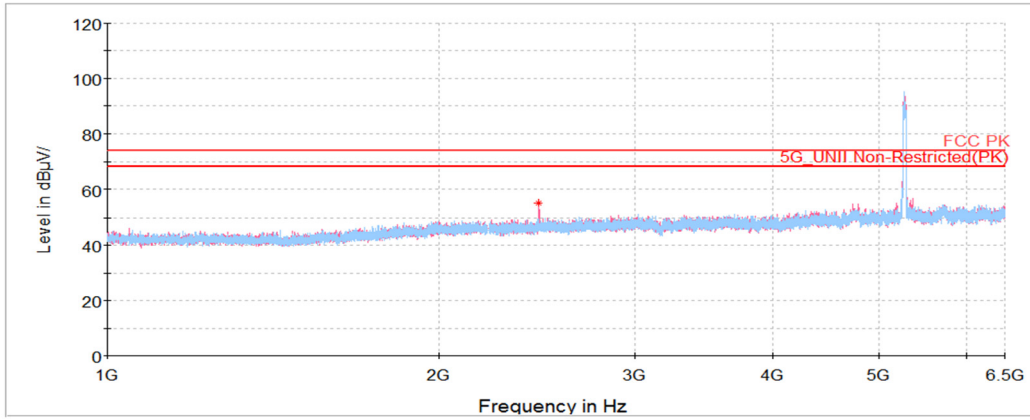
Page (125) of (206)

**802.11n HT40 UNII-2A****Lowest Channel (5 270 MHz)**

Frequency (MHz)	Pol. (V/H)	Reading (dB( $\mu$ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
2 454.58	V	71.60	32.06	-48.39	-	55.27	68.20	12.93
10 540.45	H	58.59	37.42	-48.34	-	47.67	68.20	20.53
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

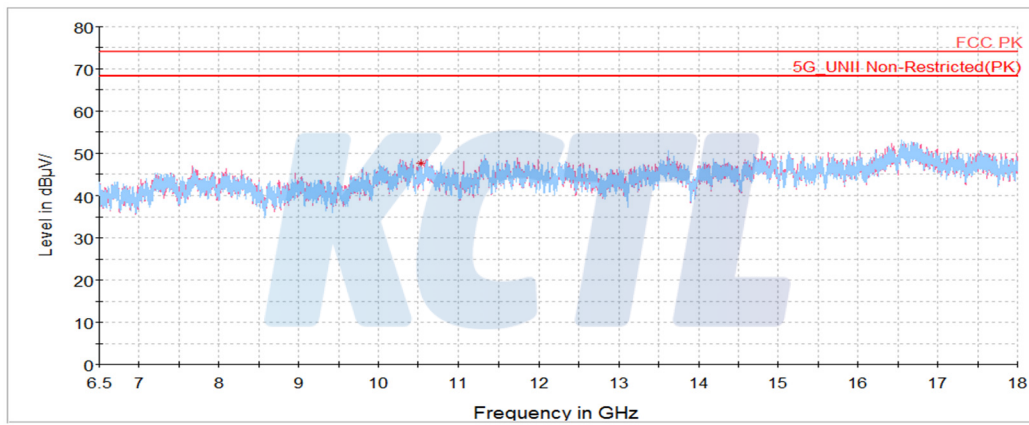


**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**

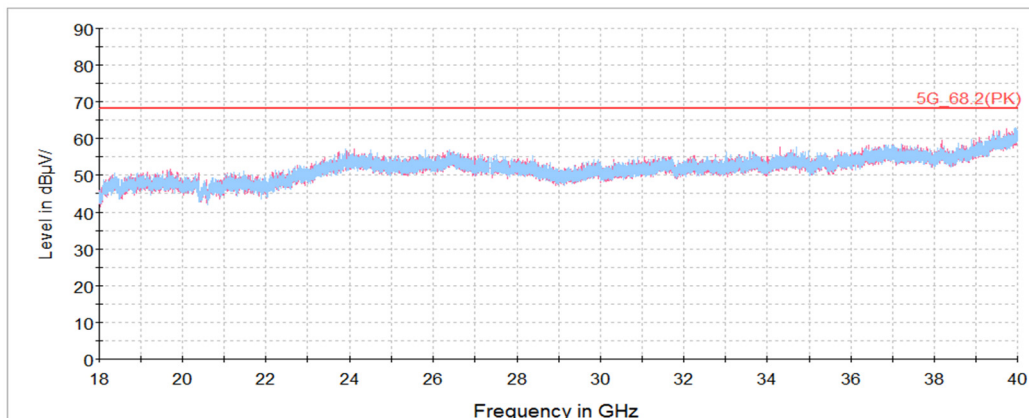


a

**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 40 GHz**



# KCTL Inc.

65, Sinwon-ro, Yeongtong-gu,  
 Suwon-si, Gyeonggi-do, 16677, Korea  
 TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

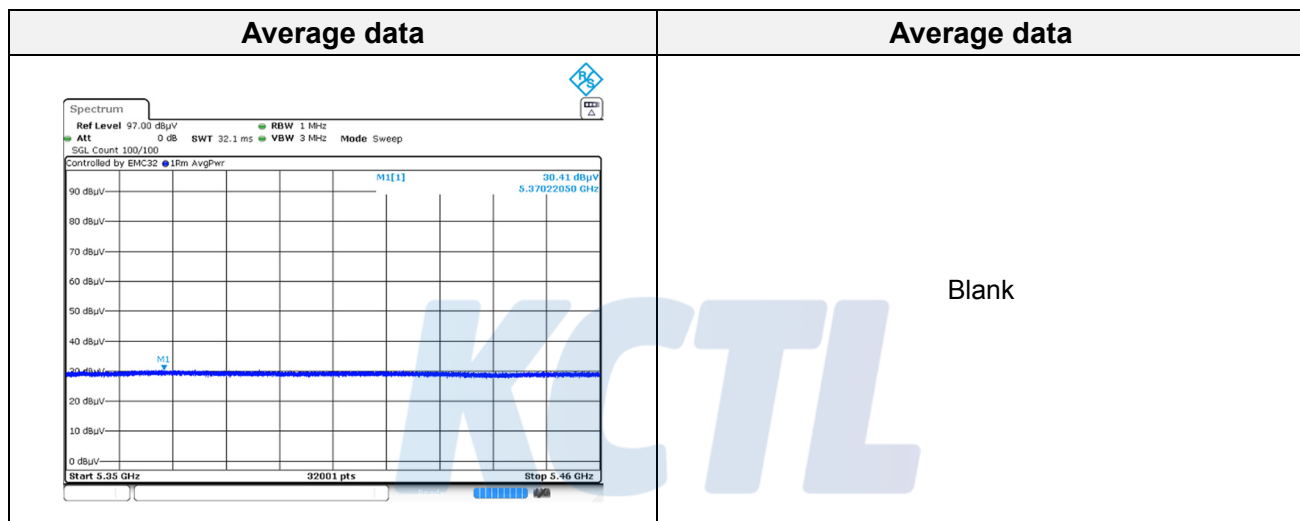
Report No.:  
 KR20-SRF0037

Page (127) of (206)

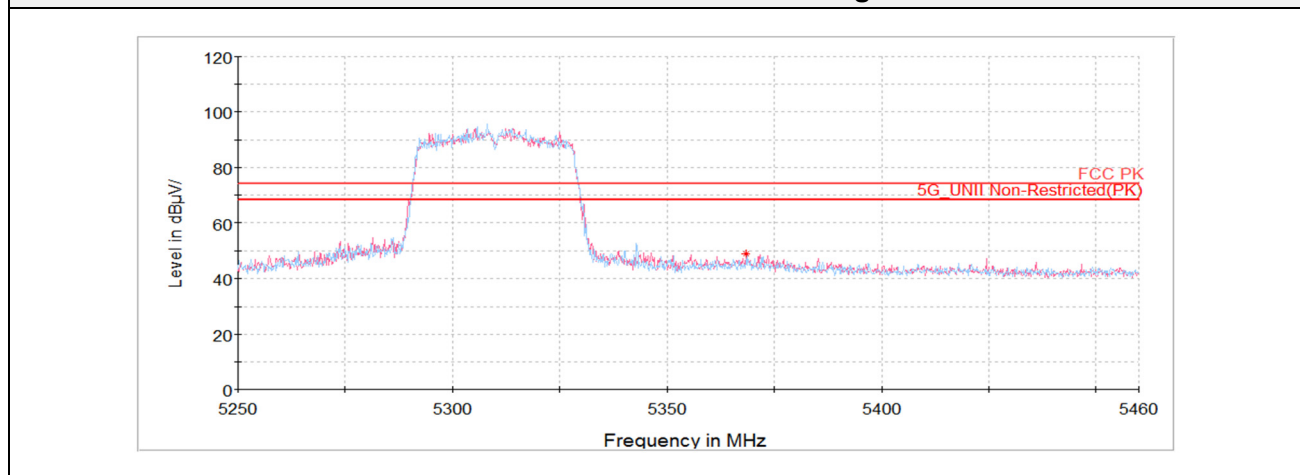


## Highest Channel (5 310 MHz)

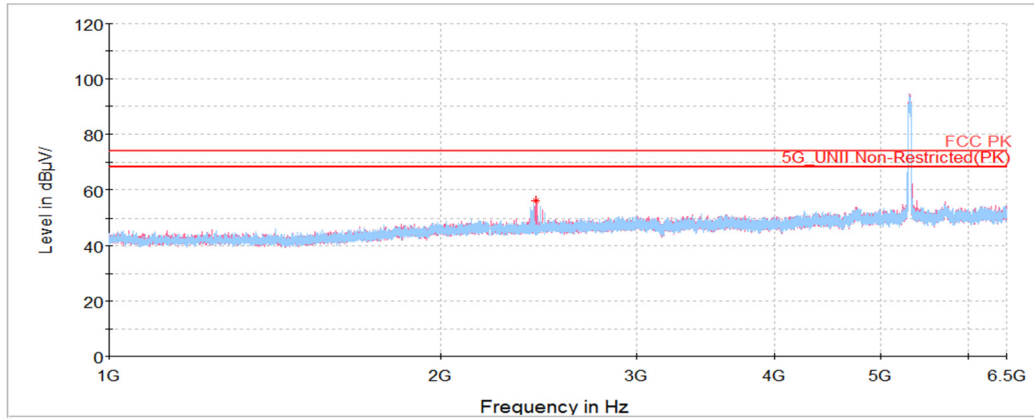
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
<b>Peak data</b>								
2 430.34	V	72.73	32.04	-48.55	-	56.22	68.20	11.98
5 370.22 <sup>1)</sup>	V	41.45	34.34	-26.79	-	49.00	74.00	25.00
10 620.23 <sup>1)</sup>	V	59.51	37.47	-48.87	-	48.11	74.00	25.89
<b>Average Data</b>								
5 370.22 <sup>1)</sup>	V	30.41	34.34	-26.79	0.62	38.58	54.00	15.42



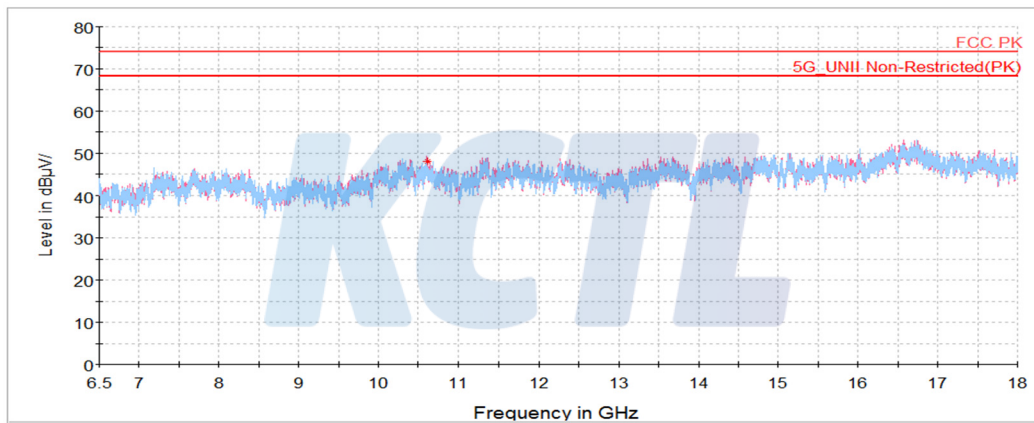
## Horizontal/Vertical for Band-edge



**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 40 GHz**

