

**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-SRF0016-A

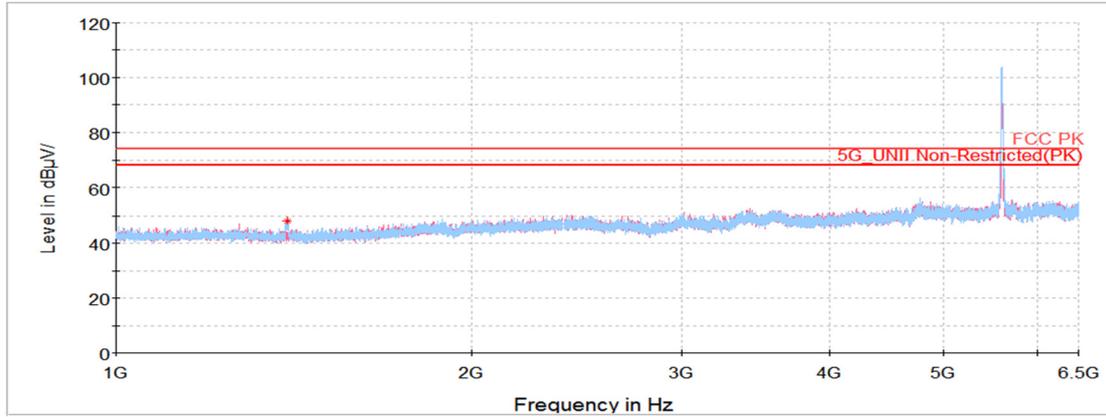
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**KCTL****Middle Channel (5 600 MHz)**

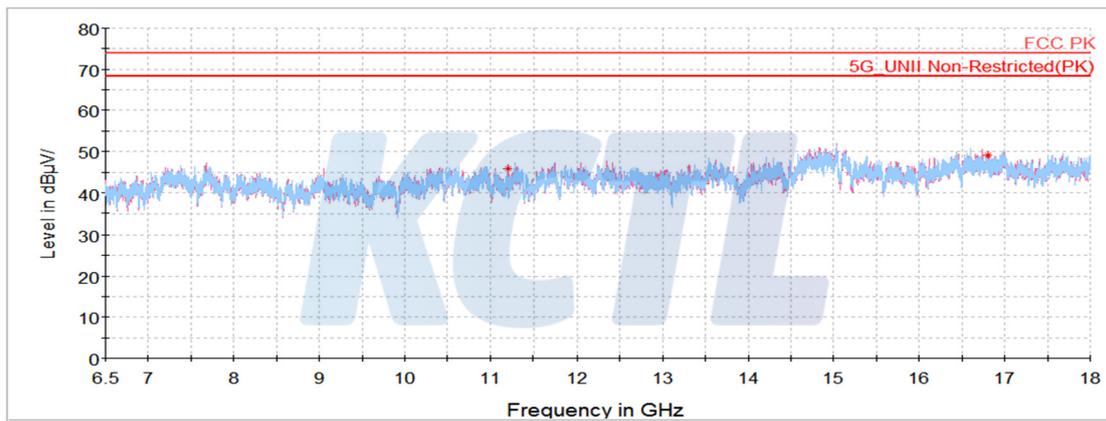
Frequency (MHz)	Reading (dB( $\mu$ V))	Pol. (V/H)	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
1 395.31 <sup>1)</sup>	70.64	H	27.96	-50.39	-	48.21	74.00	25.79
11 200.27 <sup>1)</sup>	58.49	V	37.82	-50.47	-	45.84	74.00	28.16
16 804.36	54.06	V	41.80	-46.85	-	49.01	68.20	19.19
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

**KCTL**

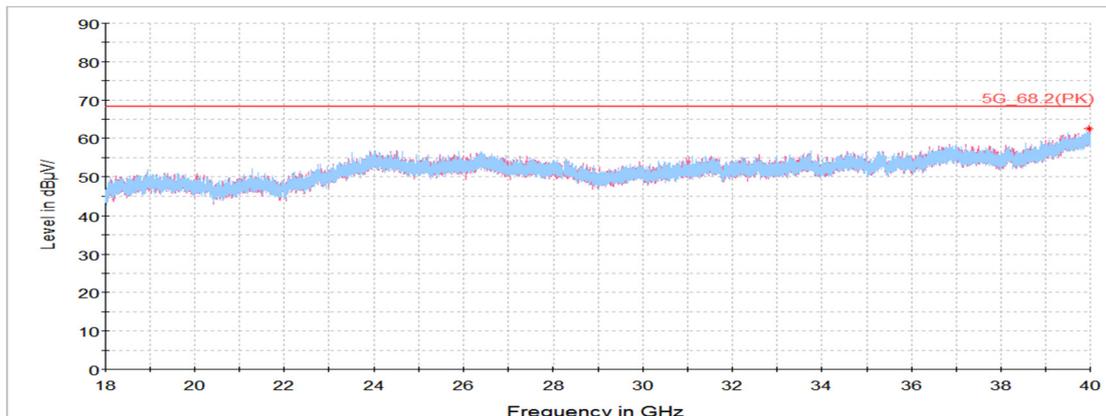
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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



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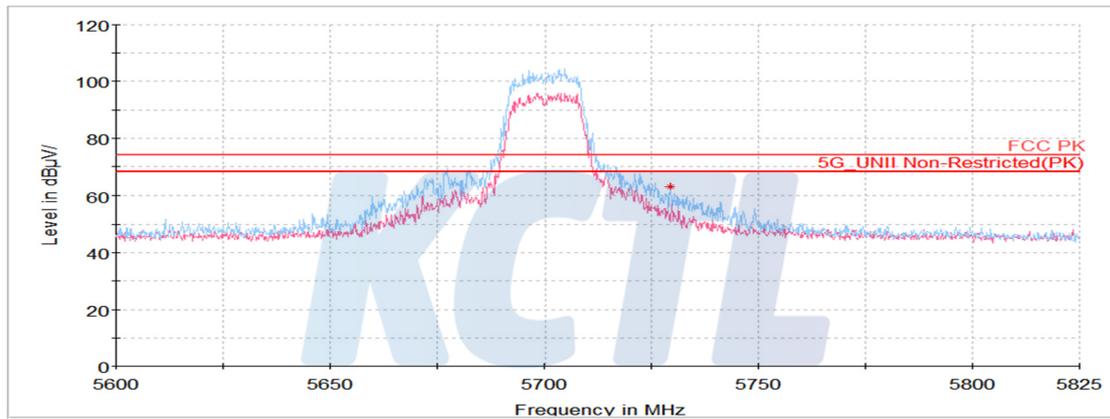
Page (147) of (219)



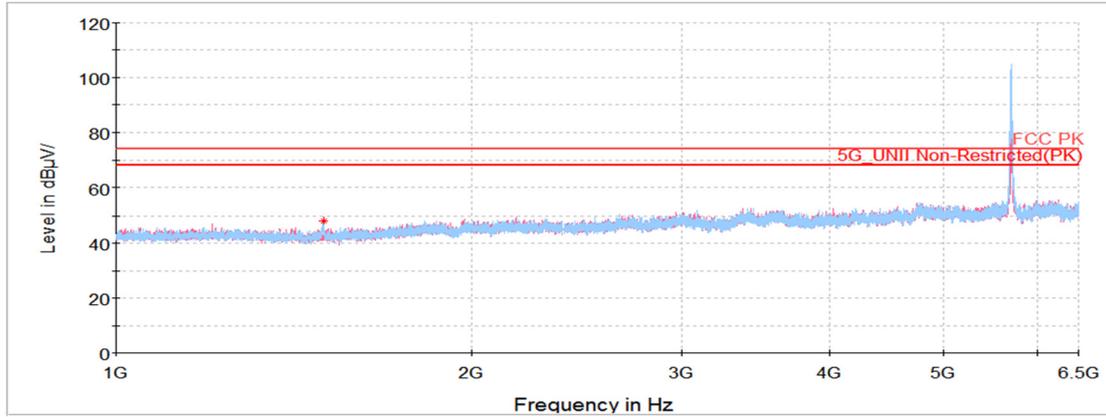
## Highest Channel (5 700 MHz)

Frequency (MHz)	Reading (dB( $\mu$ V))	Pol. (V/H)	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
1 498.78 <sup>1)</sup>	69.93	H	28.00	-50.02	-	47.91	74.00	26.09
5 729.48	53.95	H	35.08	-25.98	-	63.05	68.20	5.15
11 409.78 <sup>1)</sup>	56.03	V	37.95	-50.18	-	43.80	74.00	30.20
17 101.56	53.21	H	41.26	-47.26	-	47.21	68.20	20.99
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

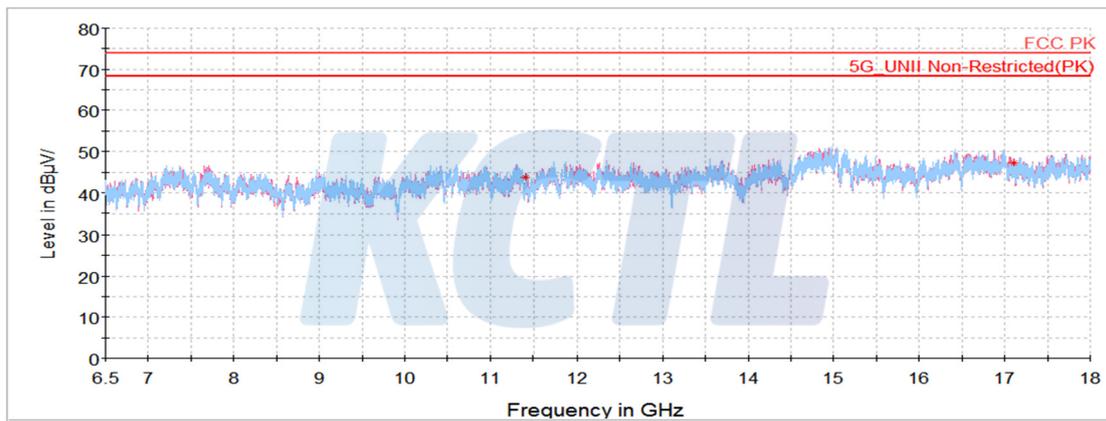
## Horizontal/Vertical for Band-edge



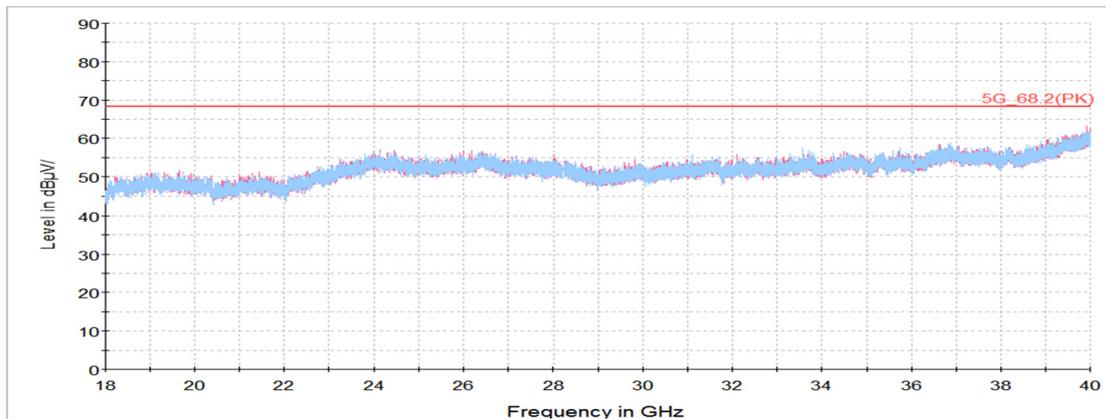
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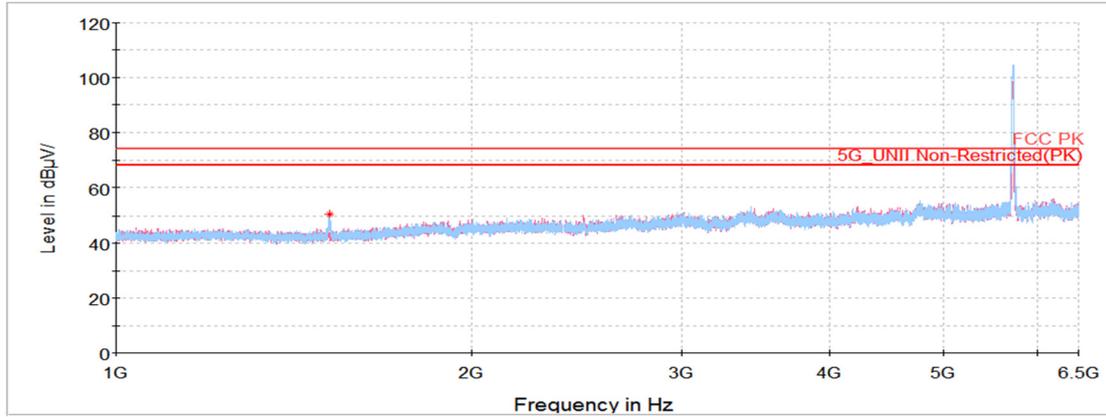
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**Straddle Channel (5 720 MHz)**

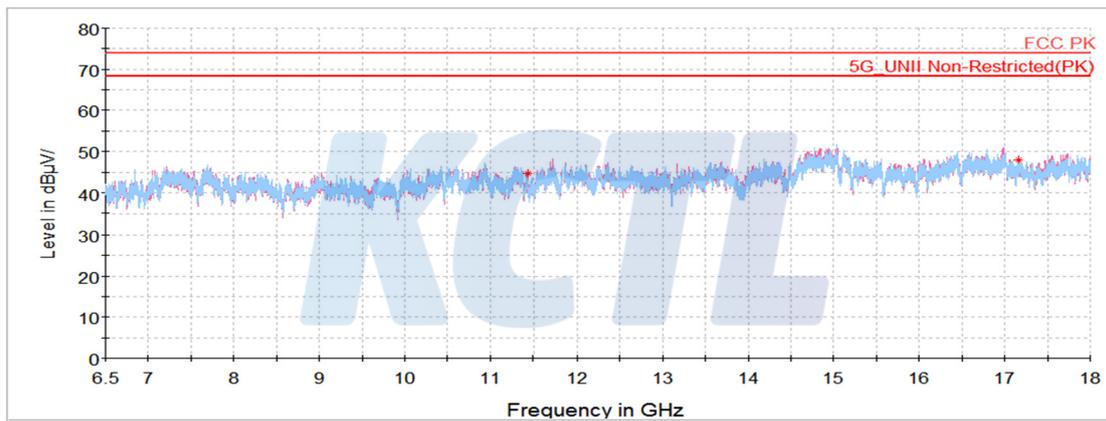
Frequency (MHz)	Reading (dB( $\mu$ V))	Pol. (V/H)	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
1 514.59 <sup>1)</sup>	72.48	H	28.09	-50.03	-	50.54	74.00	23.46
11 441.77 <sup>1)</sup>	56.74	V	37.97	-50.13	-	44.58	74.00	29.42
17 161.22	54.12	H	41.24	-47.46	-	47.90	68.20	20.30
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								



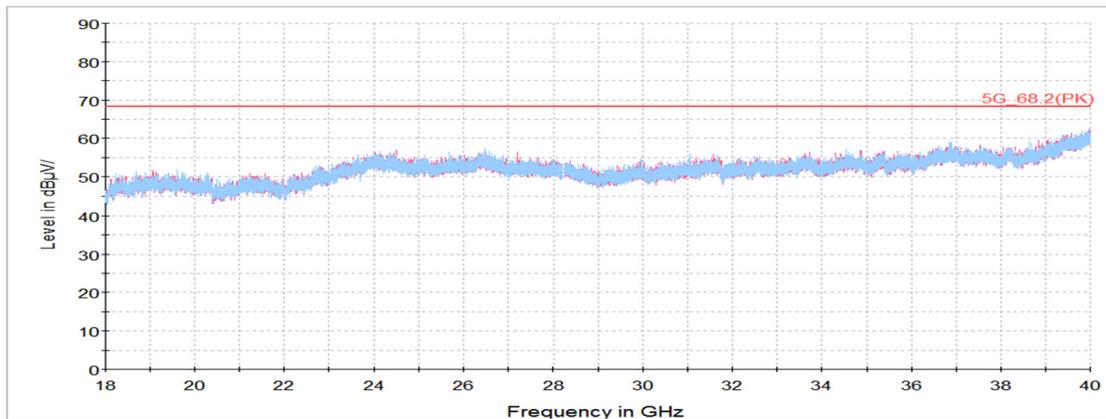
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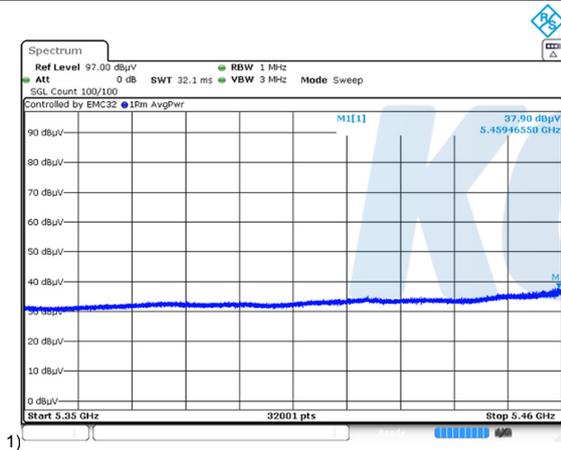


## 802.11n HT20 UNII-2C

### Lowest Channel (5 500 MHz)

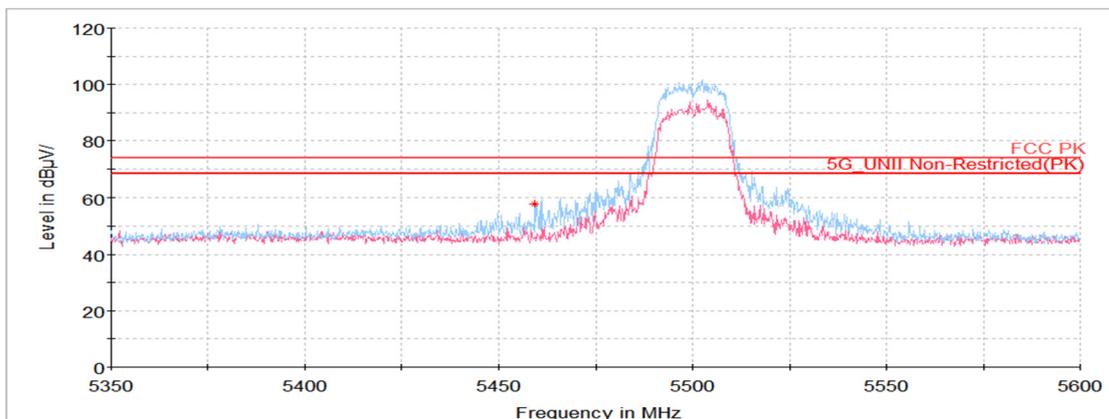
Frequency	Reading	Pol.	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(dB(μV))	(V/H)	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
<b>Peak data</b>								
1 293.56	72.44	H	27.92	-50.07	-	50.29	68.20	17.91
5 459.47 <sup>1)</sup>	50.06	H	34.74	-27.35	-	57.45	74.00	16.55
10 996.50 <sup>1)</sup>	58.10	V	37.70	-50.75	-	45.05	74.00	28.95
16 500.33	50.32	V	41.50	-46.76	-	45.06	68.20	23.14
<b>Average Data</b>								
5 459.47 <sup>1)</sup>	37.90	H	34.74	-27.35	-	45.29	54.00	8.71

### Average data



Blank

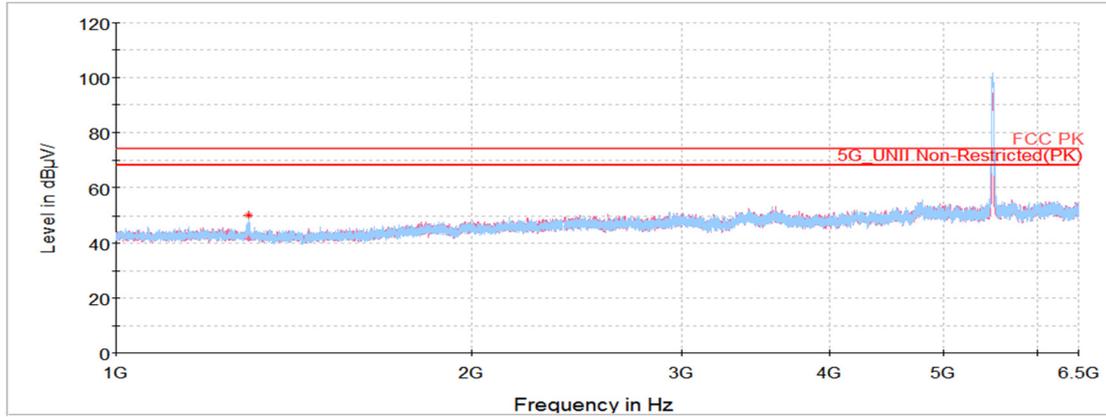
### Horizontal/Vertical for Band-edge



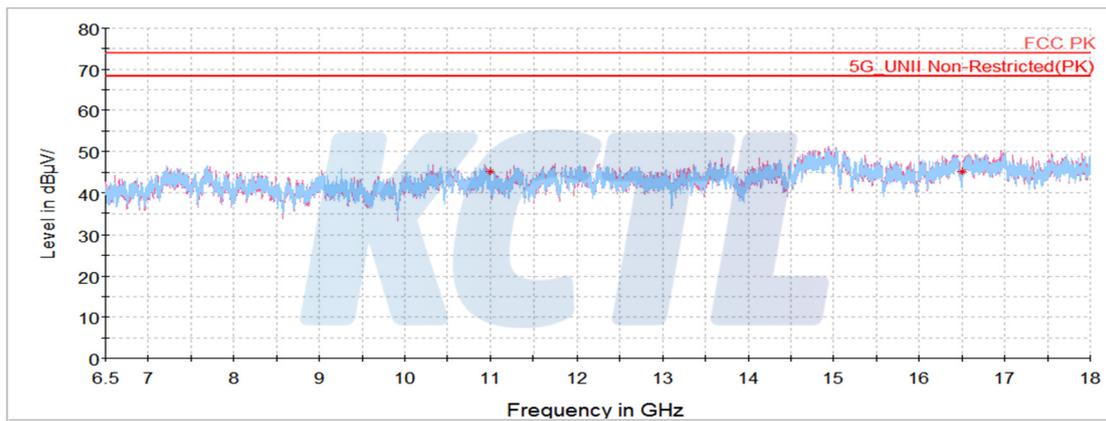
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KCTL-TIR001-003/2

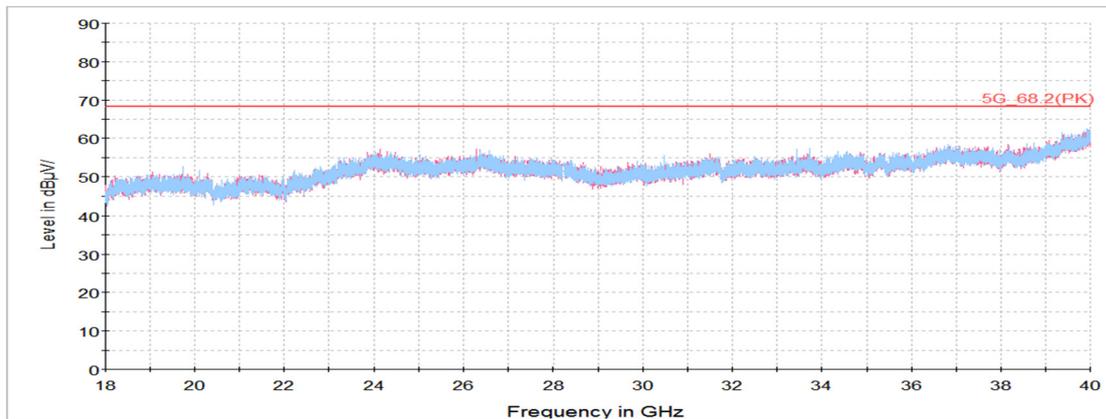
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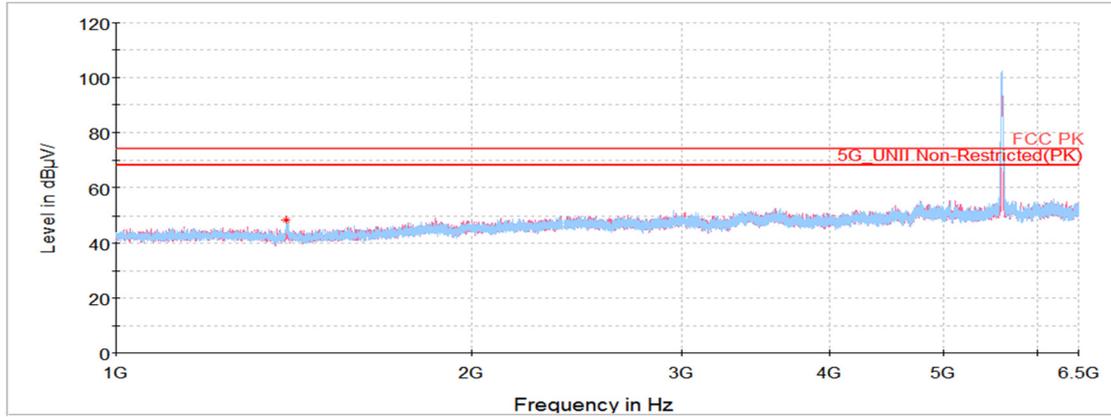
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**KCTL****Middle Channel (5 600 MHz)**

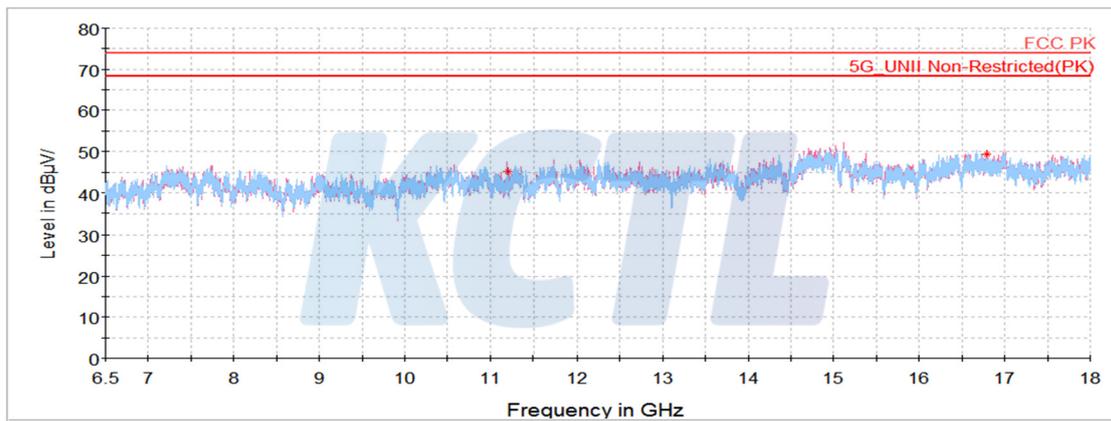
Frequency (MHz)	Reading (dB( $\mu$ V))	Pol. (V/H)	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
1 393.77 <sup>1)</sup>	70.70	H	27.96	-50.38	-	48.28	74.00	25.72
11 203.86 <sup>1)</sup>	57.70	V	37.82	-50.47	-	45.05	74.00	28.95
16 795.38	54.49	V	41.80	-46.85	-	49.44	68.20	18.76
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

**KCTL**

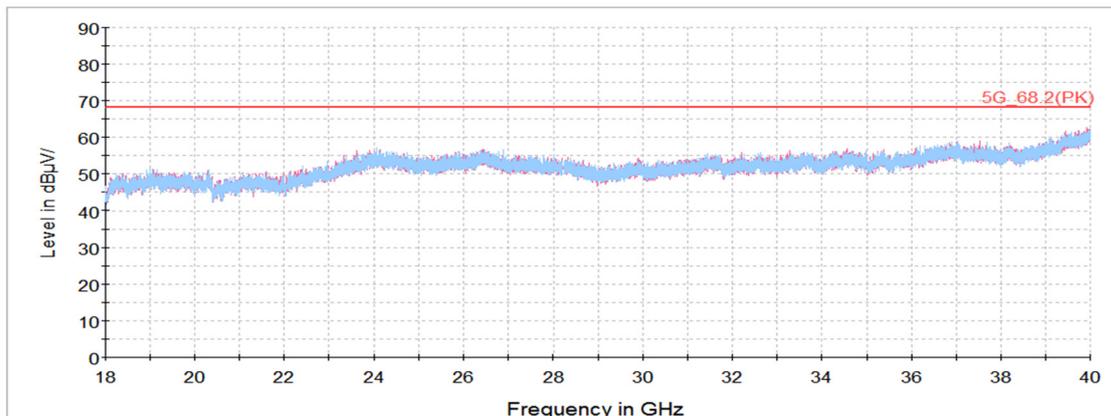
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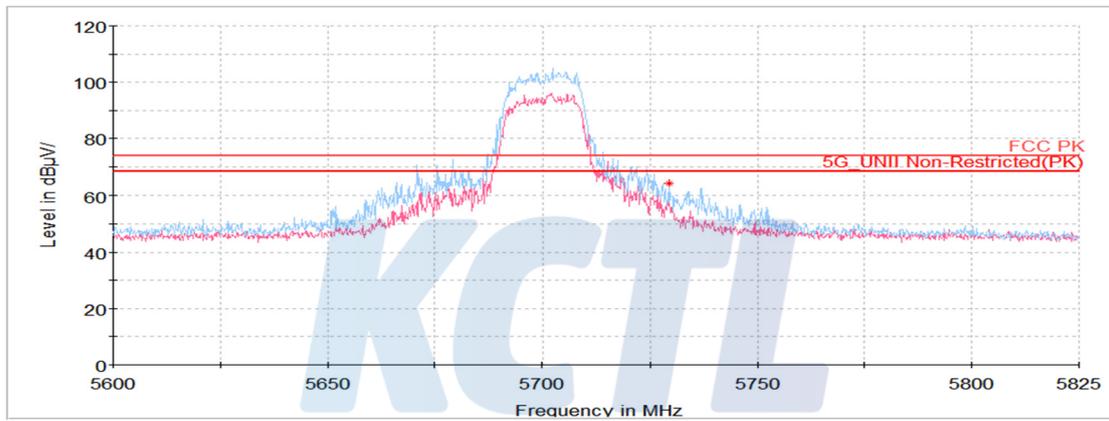
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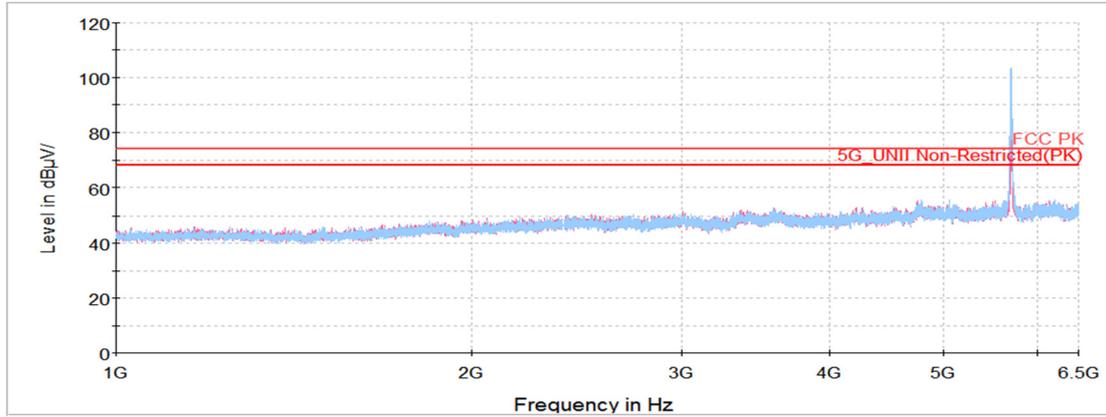
## Highest Channel (5 700 MHz)

Frequency (MHz)	Reading (dB( $\mu$ V))	Pol. (V/H)	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
5 729.48	55.04	H	35.08	-25.98	-	64.14	68.20	4.06
11 405.47 <sup>1)</sup>	57.93	V	37.94	-50.19	-	45.68	74.00	28.32
17 099.77	53.16	V	41.26	-47.25	-	47.17	68.20	21.03
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

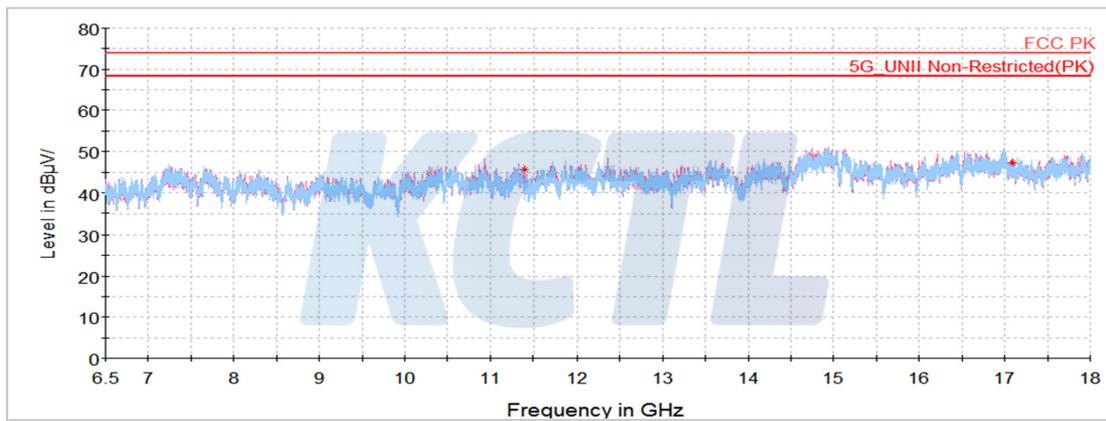
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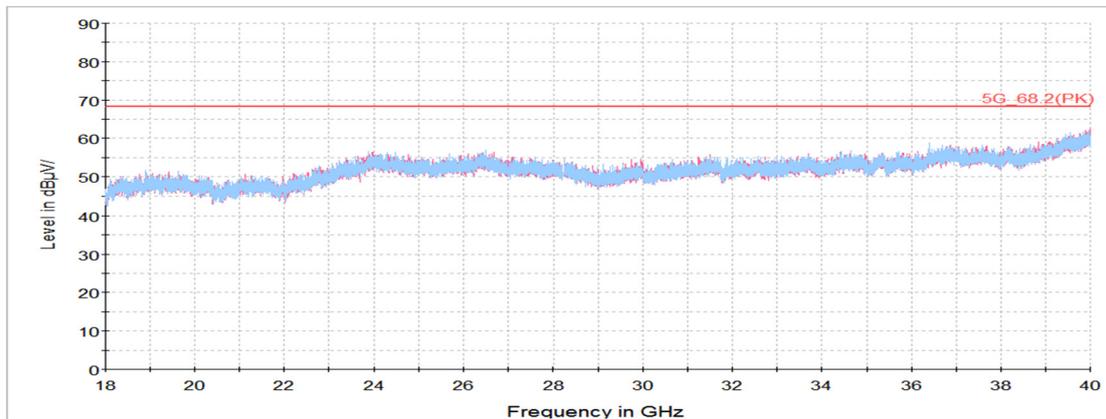
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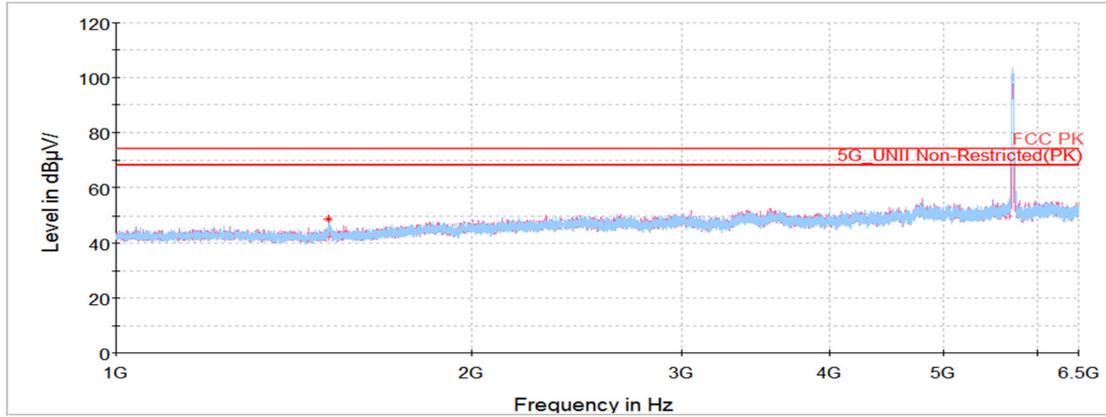
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**KCTL****Straddle Channel (5 720 MHz)**

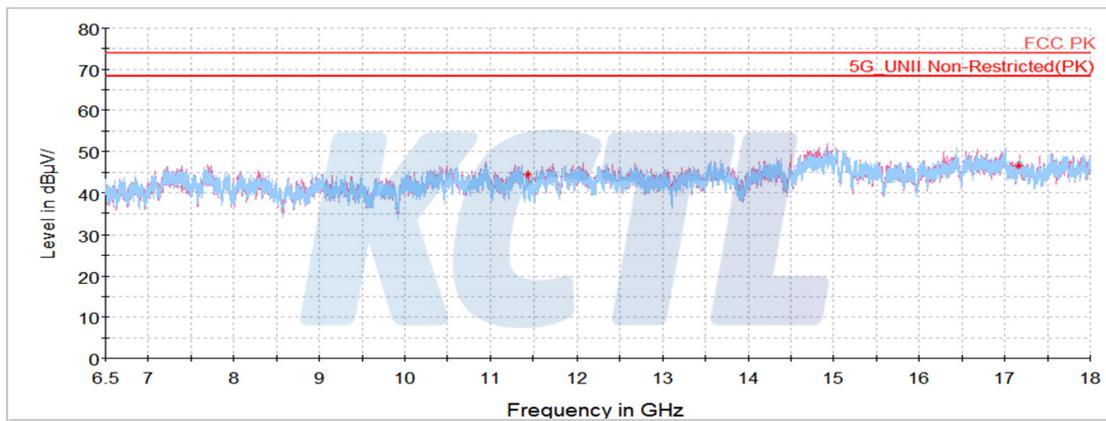
Frequency (MHz)	Reading (dB( $\mu$ V))	Pol. (V/H)	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
1 512.53 <sup>1)</sup>	70.57	H	28.08	-50.03	-	48.62	74.00	25.38
11 443.56 <sup>1)</sup>	56.69	V	37.97	-50.13	-	44.53	74.00	29.47
17 160.50	52.74	V	41.24	-47.46	-	46.52	68.20	21.68
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

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