

**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.:  
KR19-SRF0117-B

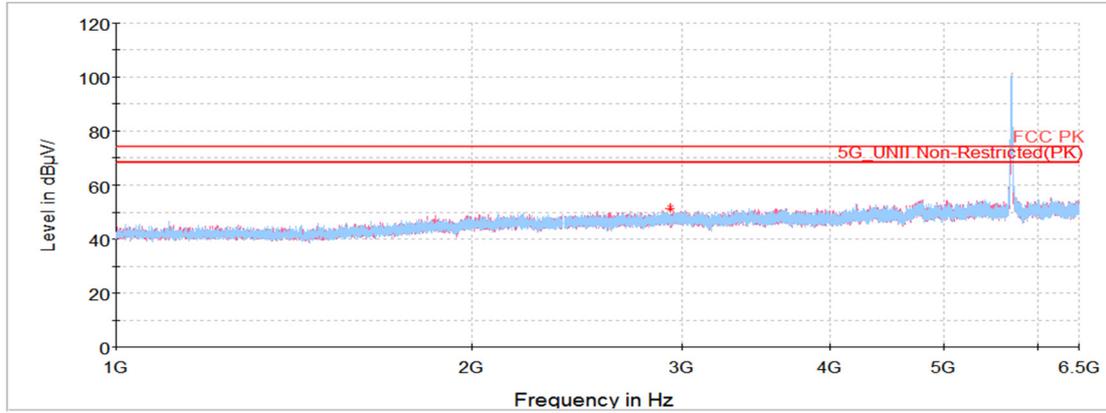
Page (143) of (199)

**Highest Channel (5 720 MHz)**

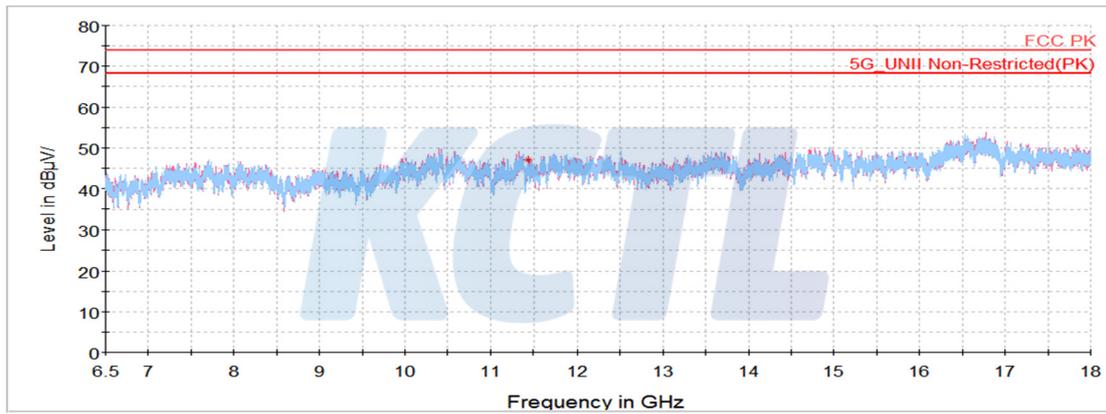
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu V$ ))	(dB)	(dB)	(dB)	(dB( $\mu V/m$ ))	(dB( $\mu V/m$ ))	(dB)
<b>Peak data</b>								
11 440.33 <sup>1)</sup>	V	57.46	38.14	-48.51	-	47.09	74.00	26.91
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								



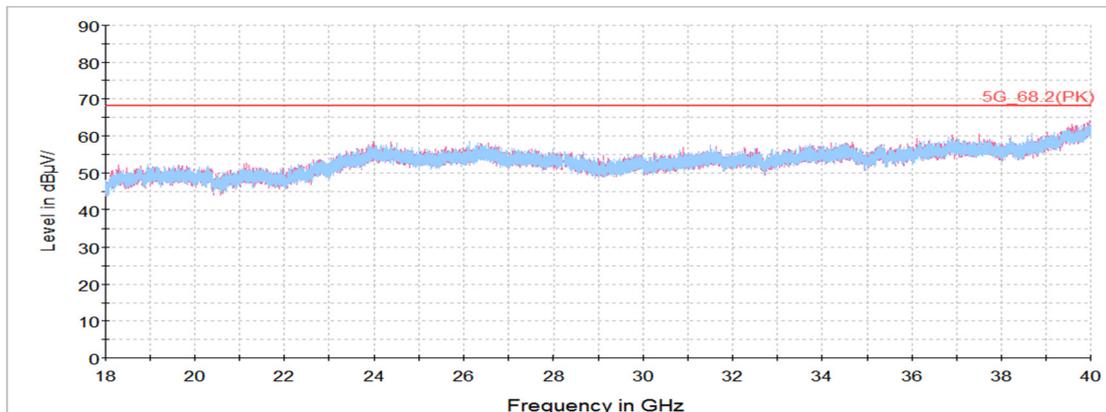
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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



**KCTL Inc.**

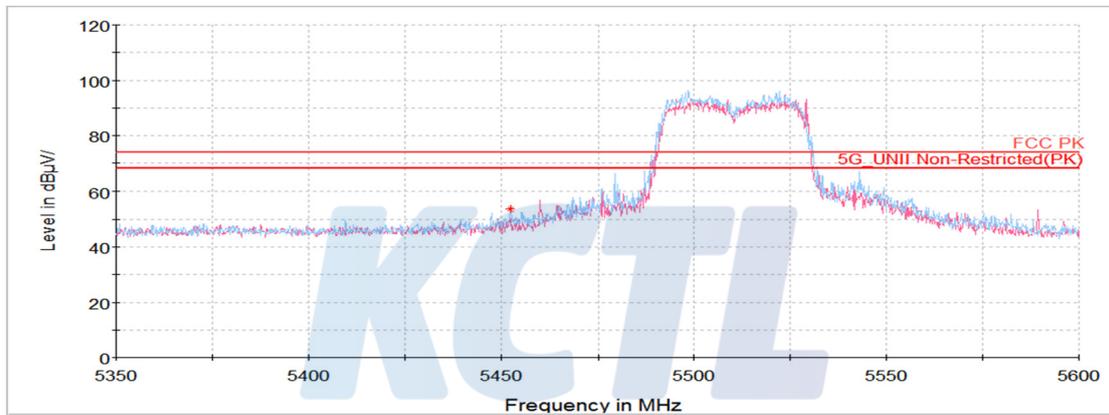
65, Sinwon-ro, Yeongtong-gu,  
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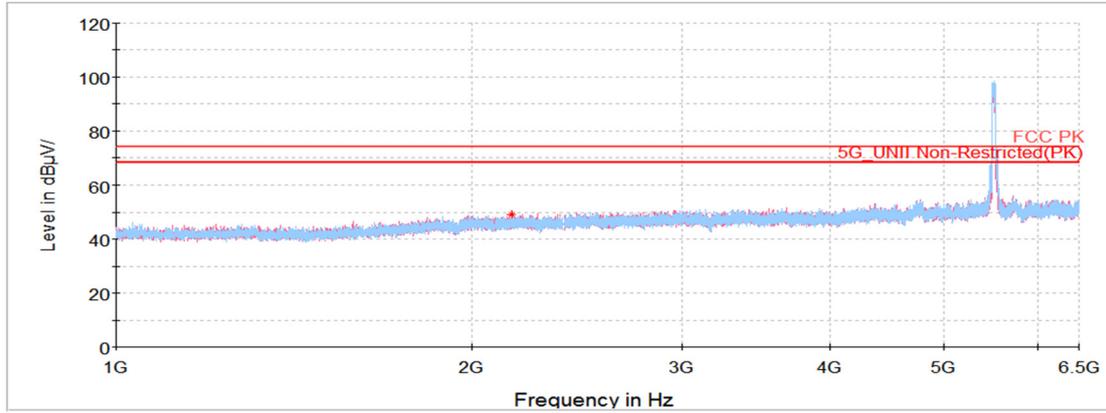
Page (145) of (199)

**KCTL****802.11n HT40 UNII-2C****Lowest Channel (5 510 MHz)**

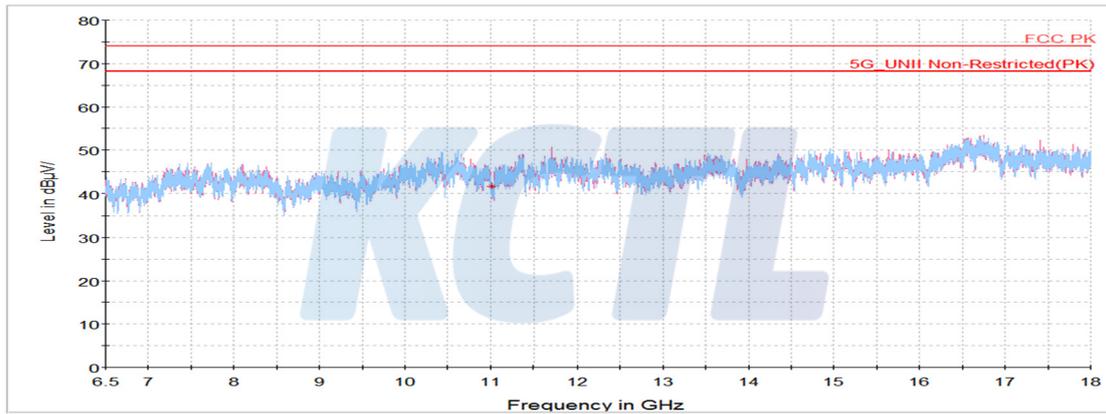
Frequency (MHz)	Pol. (V/H)	Reading (dB( $\mu$ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
5 459.93 <sup>1)</sup>	H	46.29	34.45	-27.35	-	53.39	74.00	20.61
11 019.86 <sup>1)</sup>	H	55.21	37.72	-51.26	-	41.67	74.00	32.33
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

**Horizontal/Vertical for Band-edge**

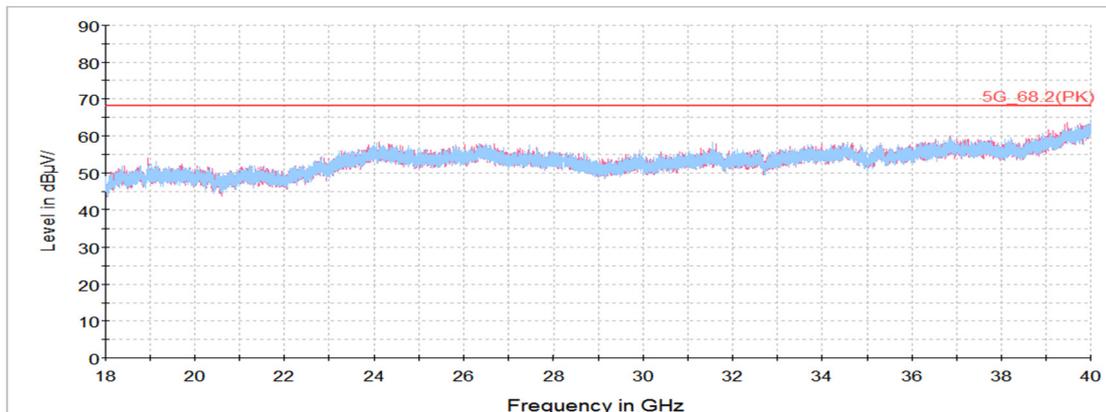
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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



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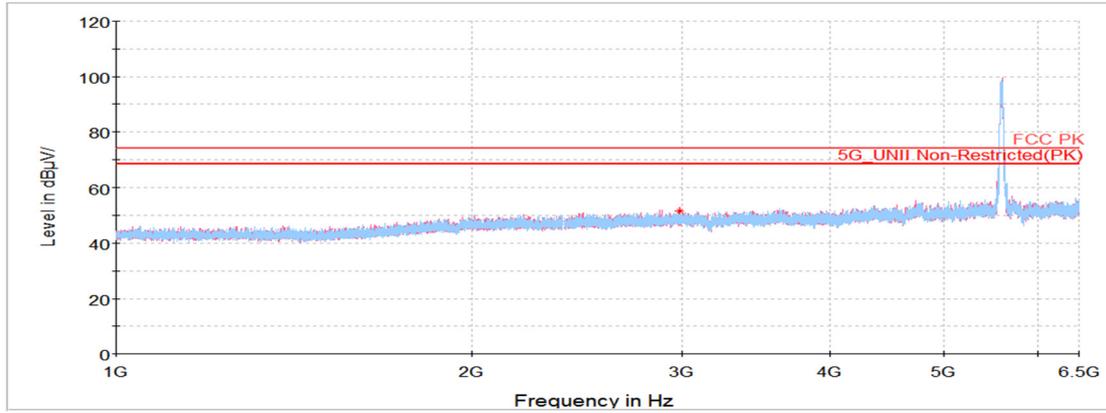
Page (147) of (199)

**KCTL****Middle Channel (5 590 MHz)**

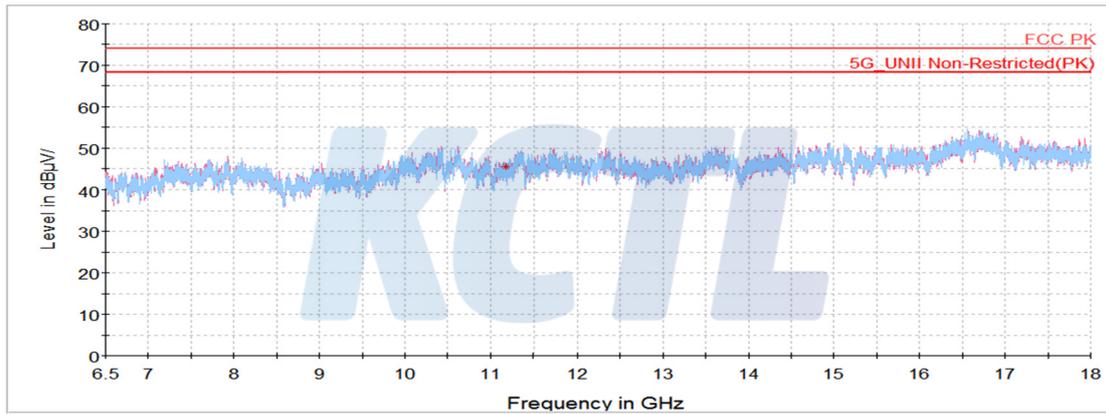
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu V$ ))	(dB)	(dB)	(dB)	(dB( $\mu V/m$ ))	(dB( $\mu V/m$ ))	(dB)
<b>Peak data</b>								
11 179.78 <sup>1)</sup>	H	57.74	37.88	-50.21	-	45.41	74.00	28.59
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

**KCTL**

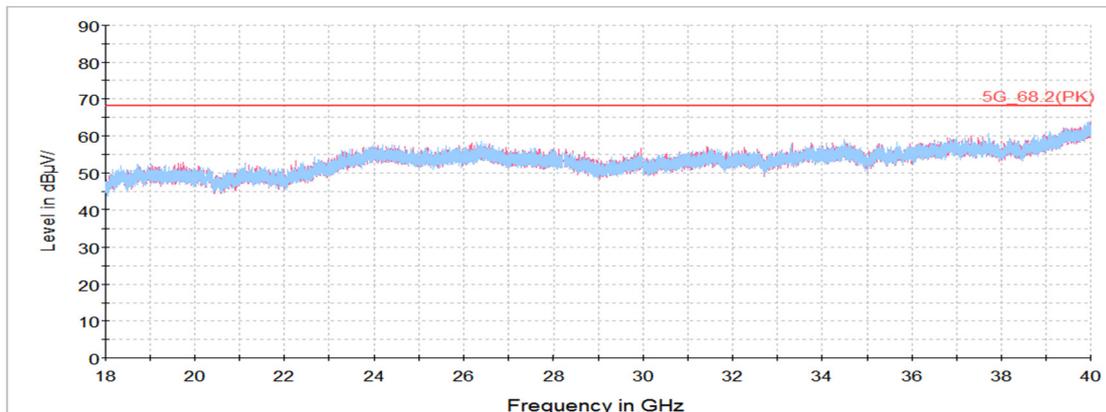
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**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



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



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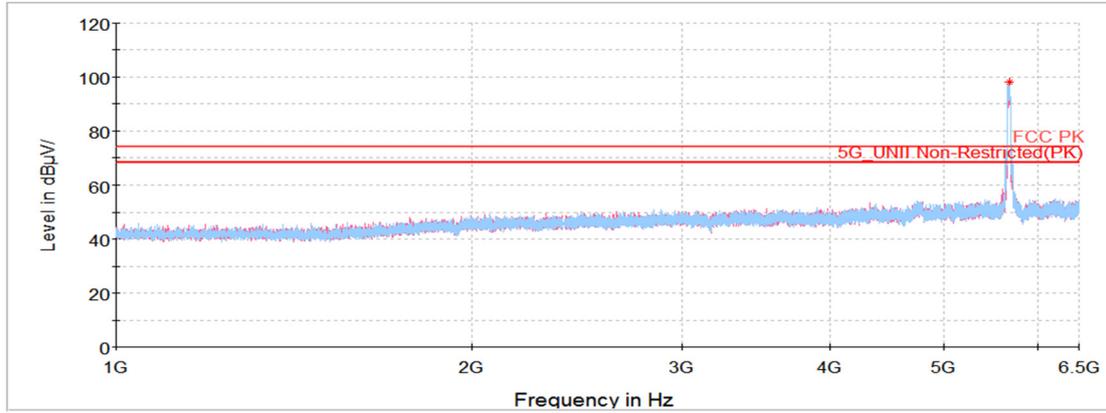
Page (149) of (199)

**Highest Channel (5 710 MHz)**

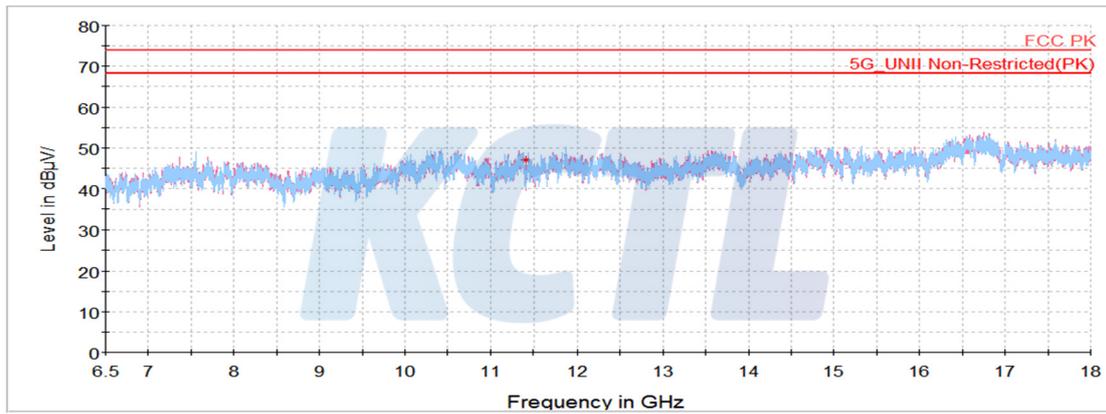
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu$ V))	(dB)	(dB)	(dB)	(dB( $\mu$ V/m))	(dB( $\mu$ V/m))	(dB)
<b>Peak data</b>								
11 419.13 <sup>1)</sup>	V	57.55	38.12	-48.64	-	47.03	74.00	26.97
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								



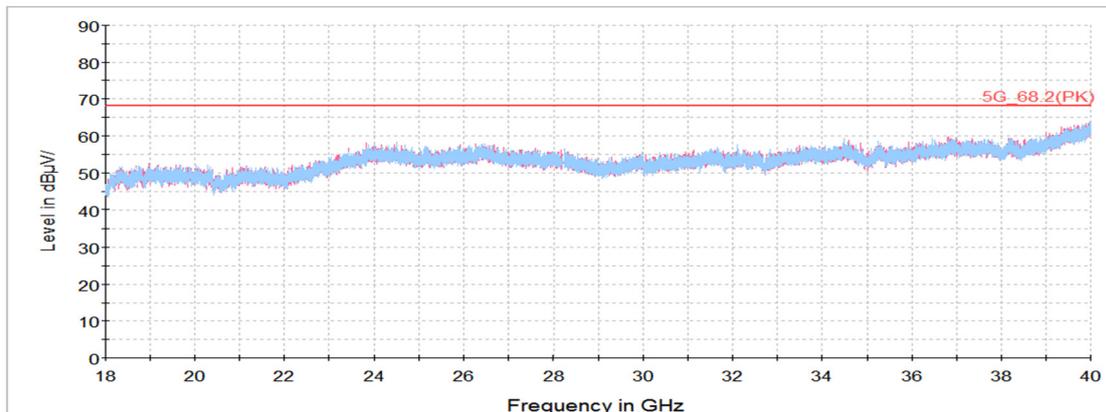
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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



**KCTL Inc.**

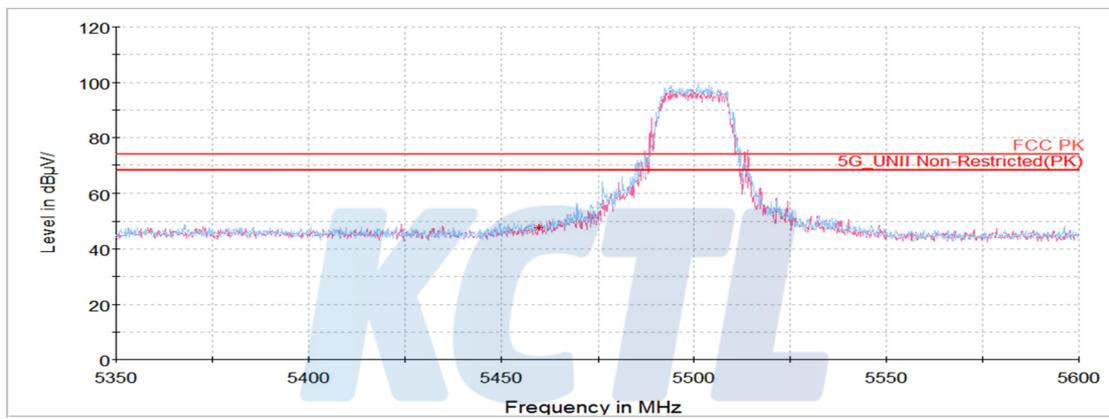
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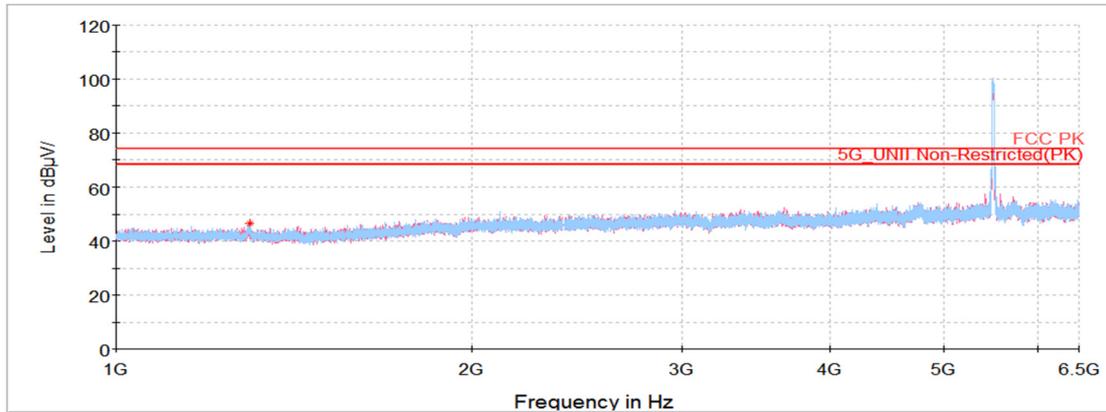
Page (151) of (199)

**KCTL****802.11ac VHT20 UNII-2C****Lowest Channel (5 500 MHz)**

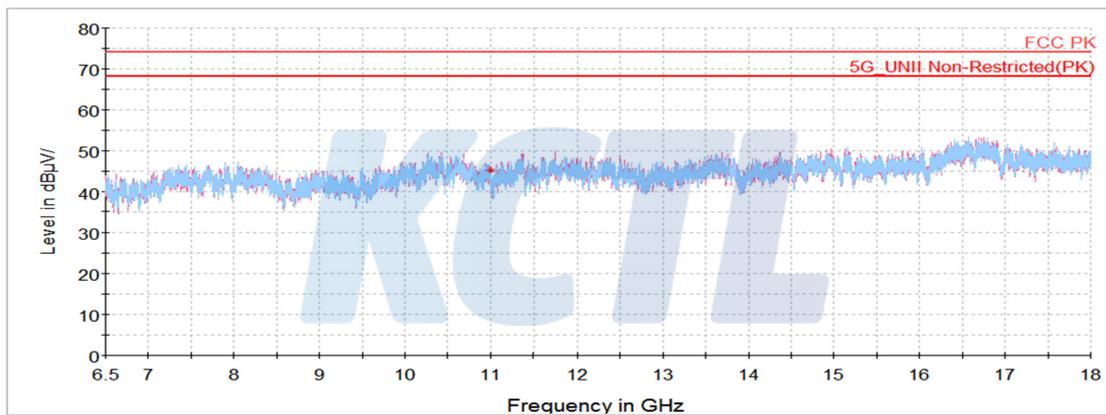
Frequency (MHz)	Pol. (V/H)	Reading (dB( $\mu$ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
5 459.81 <sup>1)</sup>	H	40.58	34.45	-27.35	-	47.68	74.00	26.32
11 000.09 <sup>1)</sup>	V	58.83	37.70	-51.38	-	45.15	74.00	28.85
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

**Horizontal/Vertical for Band-edge**

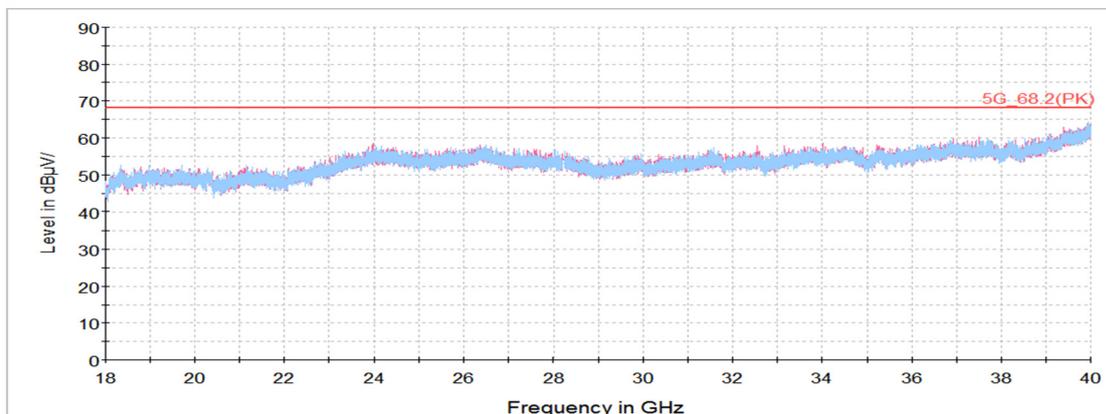
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**Horizontal/Vertical for 6.5 GHz ~ 18 GHz**



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



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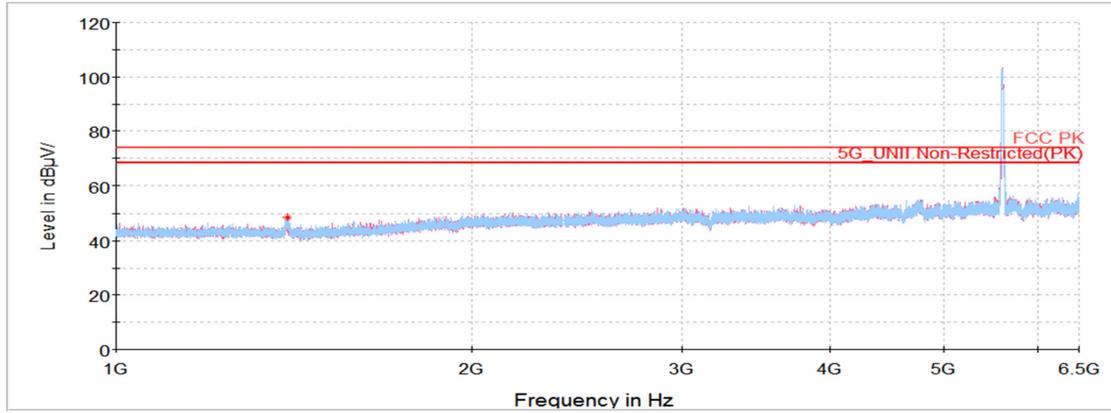
Page (153) of (199)

**Middle Channel (5 600 MHz)**

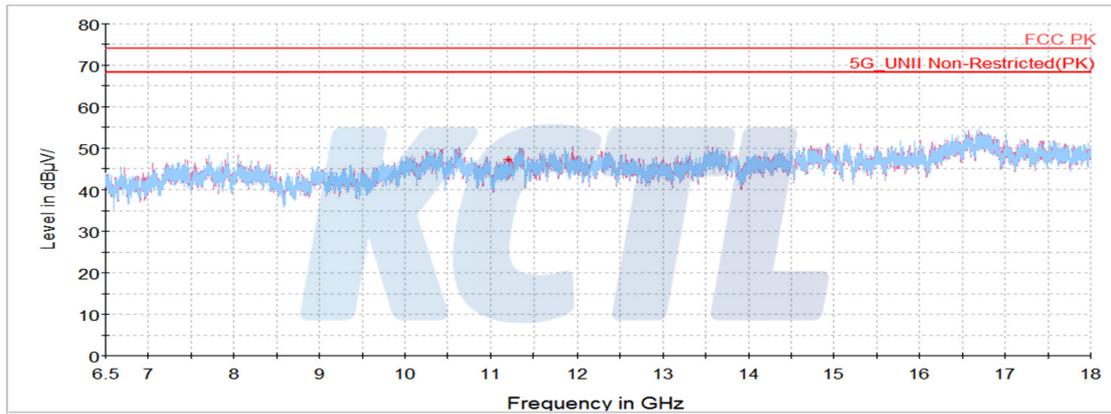
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu V$ ))	(dB)	(dB)	(dB)	(dB( $\mu V/m$ ))	(dB( $\mu V/m$ ))	(dB)
<b>Peak data</b>								
11 202.06 <sup>1)</sup>	H	59.37	37.90	-50.06	-	47.21	74.00	26.79
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								



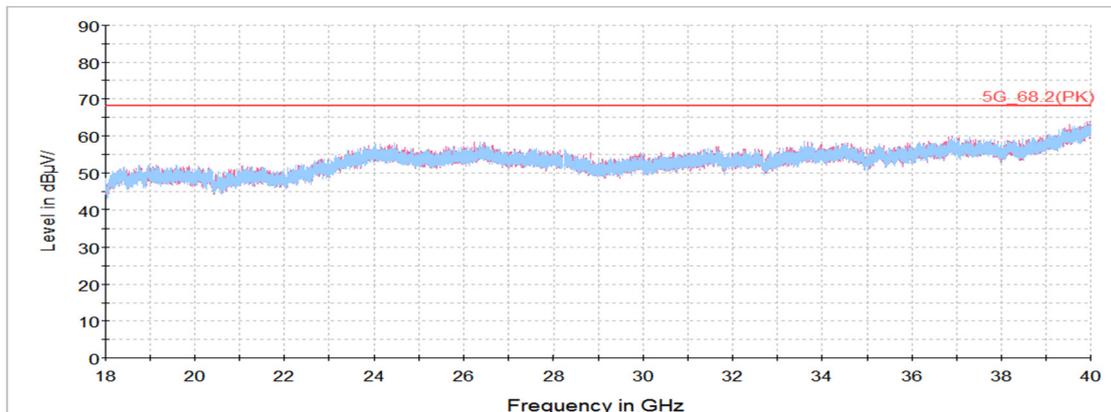
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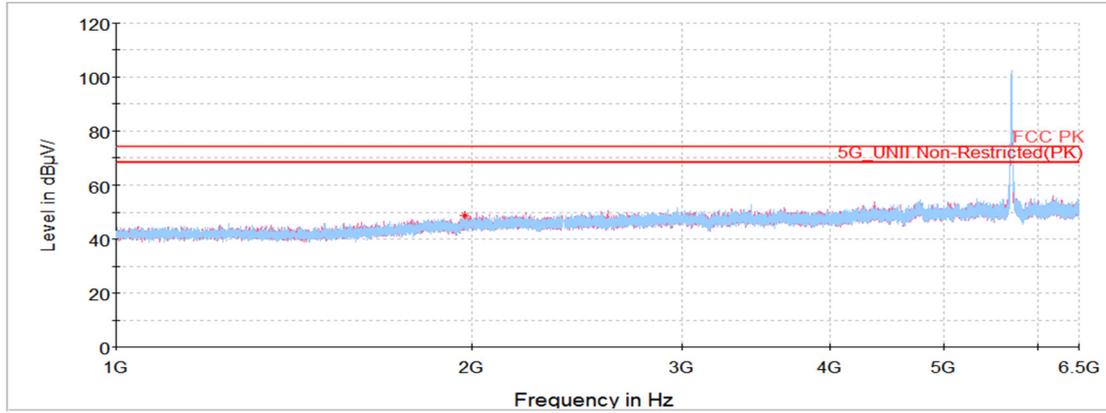
Page (155) of (199)

**Highest Channel (5 720 MHz)**

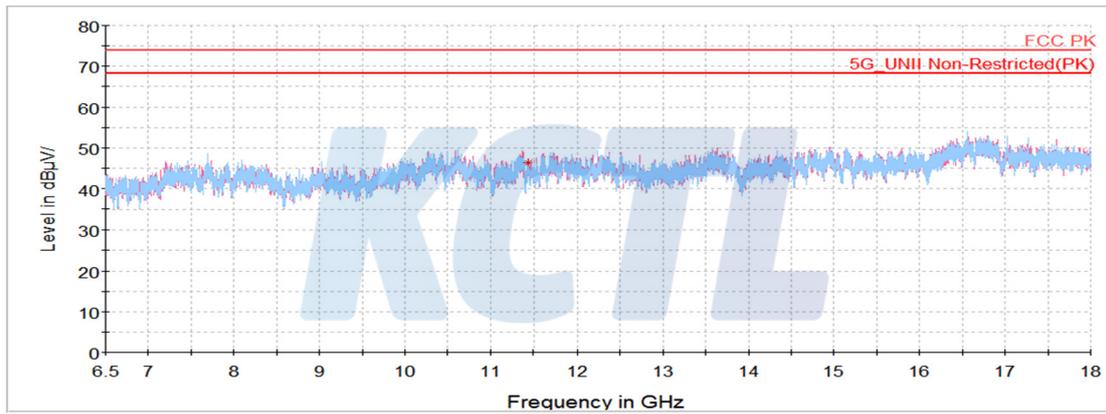
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu V$ ))	(dB)	(dB)	(dB)	(dB( $\mu V/m$ ))	(dB( $\mu V/m$ ))	(dB)
<b>Peak data</b>								
11 440.13 <sup>1)</sup>	V	56.64	38.14	-48.51	-	46.27	74.00	27.73
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								



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



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



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

