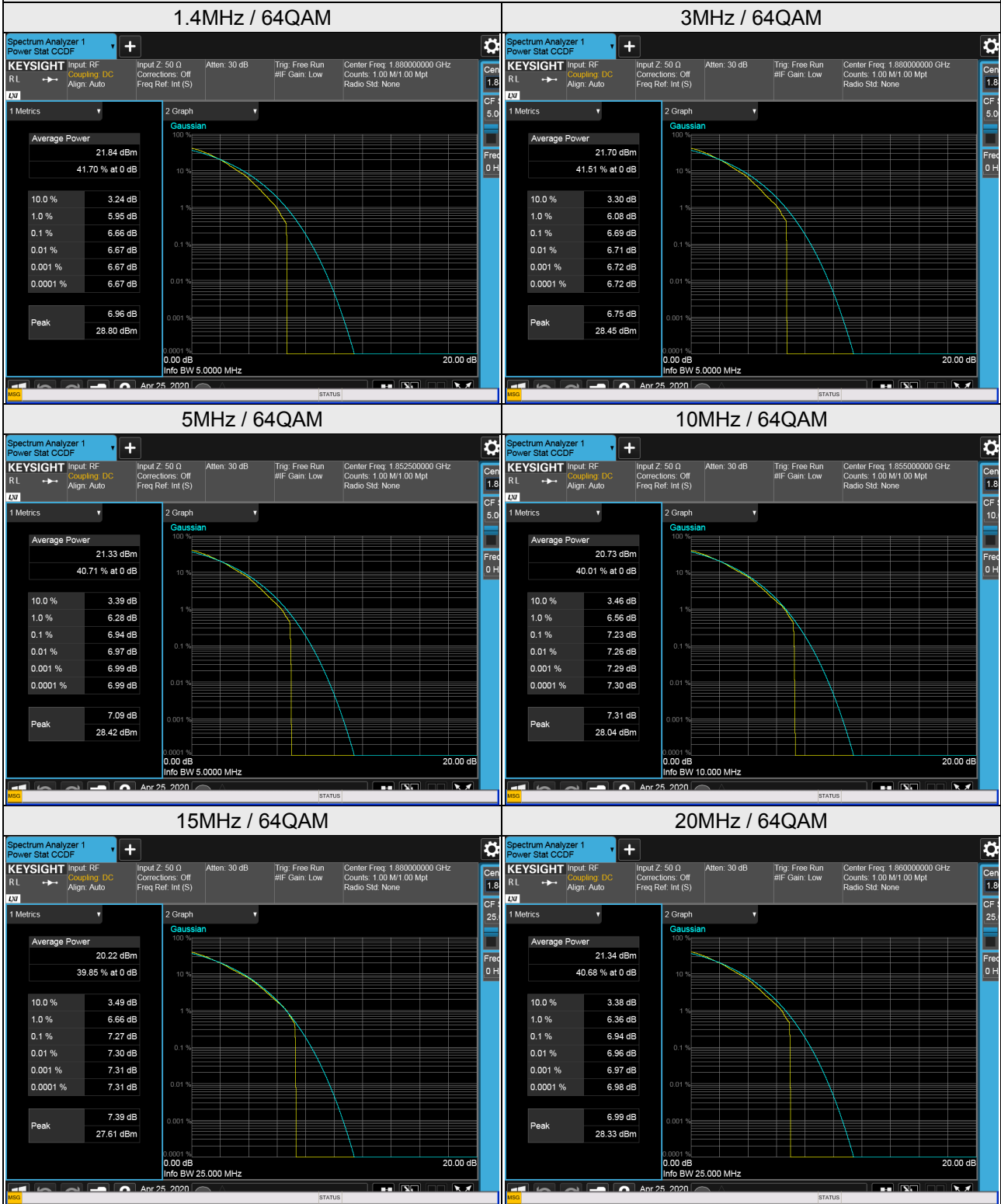


### Spectrum Plot of Worst Value



LTE Band 25, Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26047	1850.7	3.17	3.84	3.96
26365	1882.5	3.79	4.69	4.84
26683	1914.3	3.31	4.06	4.07

LTE Band 25, Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26055	1851.5	3.18	3.85	4.03
26365	1882.5	3.62	4.81	4.94
26675	1913.5	2.92	3.67	3.65

LTE Band 25, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26065	1852.5	3.18	3.88	3.81
26365	1882.5	3.57	5.00	5.09
26665	1912.5	2.75	3.50	3.50

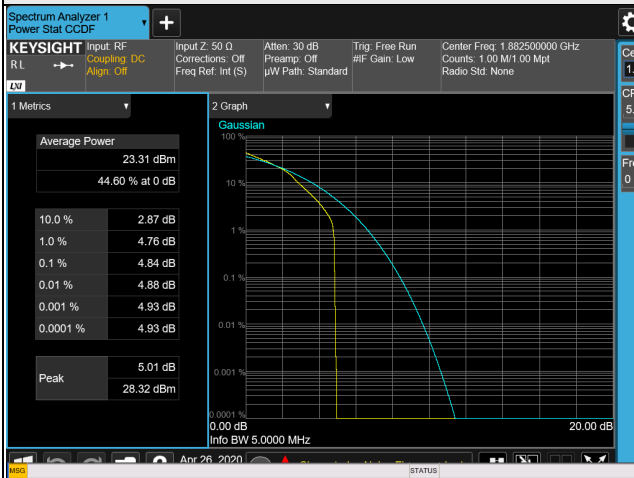
LTE Band 25, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26090	1855.0	3.27	4.01	4.09
26365	1882.5	3.74	5.35	5.28
26640	1910.0	3.75	4.70	4.68

LTE Band 25, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26115	1857.5	2.97	3.56	3.58
26365	1882.5	3.69	4.91	5.12
26615	1907.5	3.29	4.13	4.18

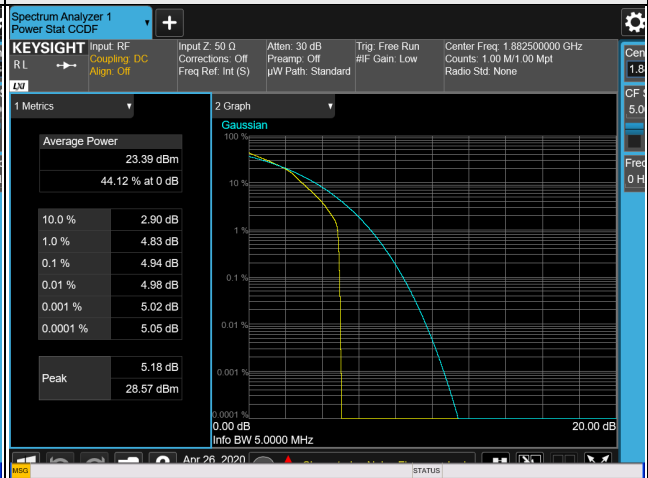
LTE Band 25, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26140	1860.0	2.94	3.67	3.39
26365	1882.5	3.54	4.96	5.13
26590	1905.0	3.37	4.02	4.08

### Spectrum Plot of Worst Value

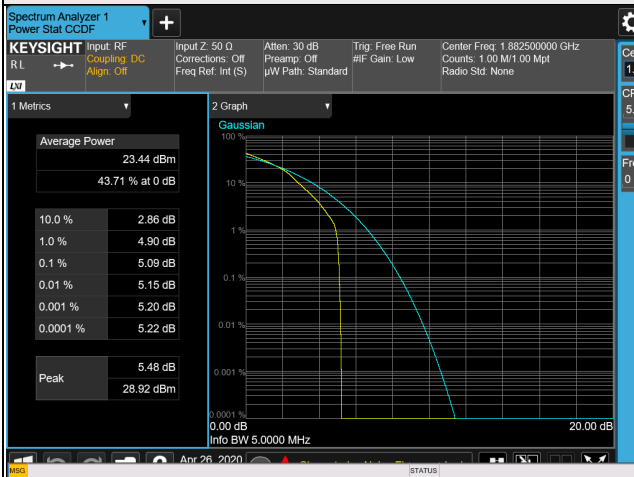
#### 1.4MHz / 64QAM



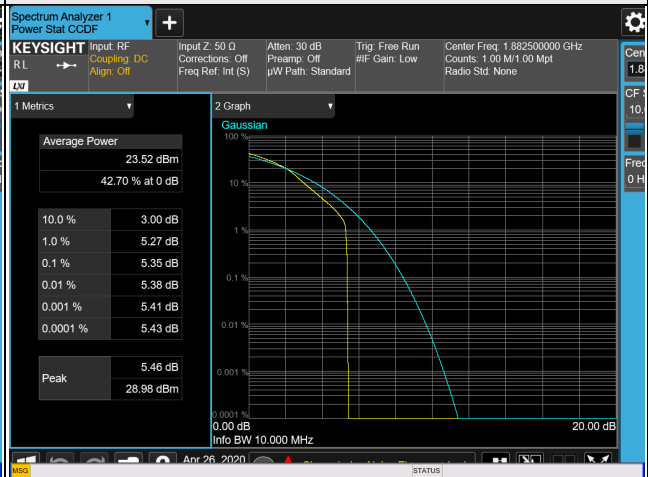
#### 3MHz / 64QAM



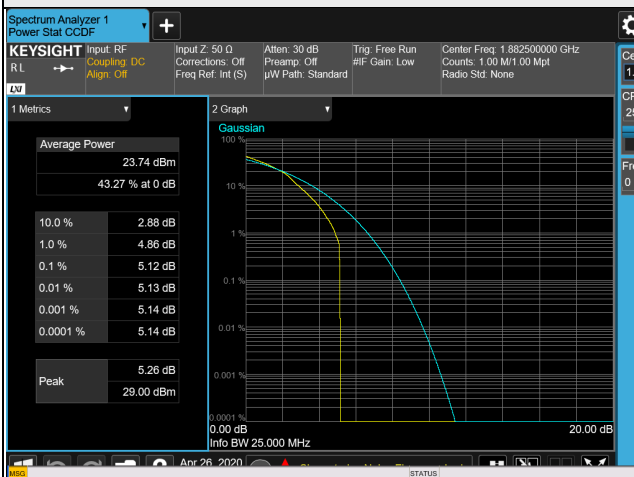
#### 5MHz / 64QAM



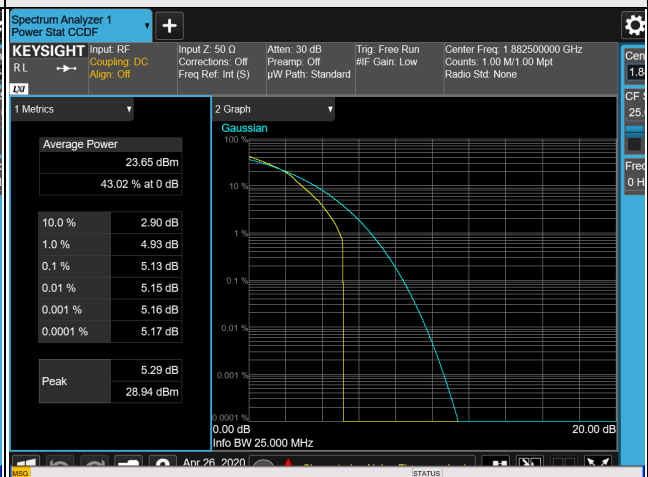
#### 10MHz / 16QAM



#### 15MHz / 64QAM



#### 20MHz / 64QAM

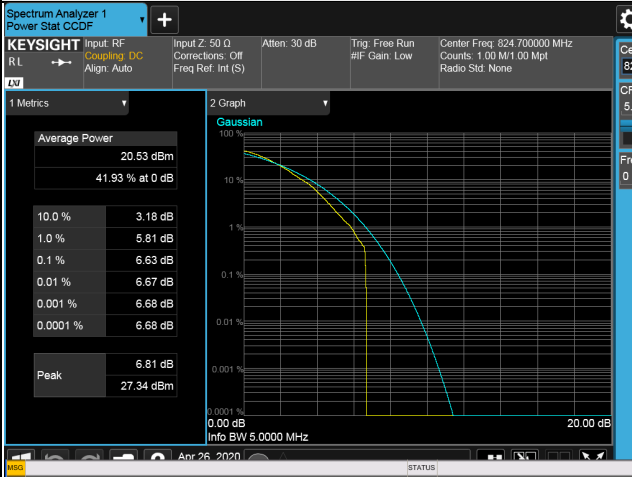


## LTE Band 26 (Part 22)

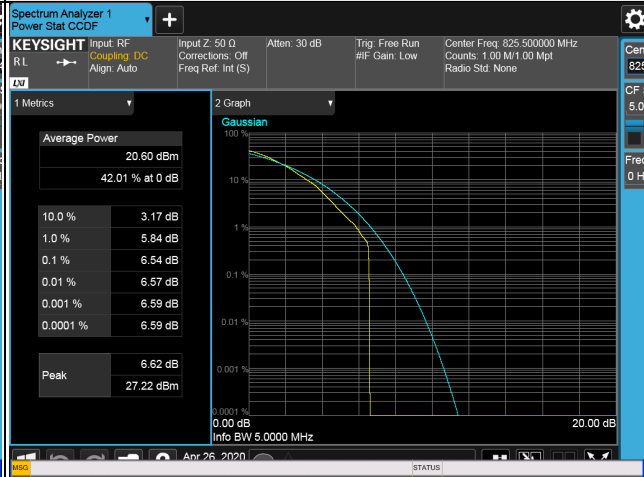
LTE Band 26 (Part 22), Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26797	824.7	4.06	4.57	6.63
26915	836.5	3.79	4.83	6.20
27033	848.3	3.48	4.17	6.15
LTE Band 26 (Part 22), Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26805	825.5	3.87	4.52	6.54
26915	836.5	3.67	4.63	6.26
27025	847.5	3.35	4.07	6.00
LTE Band 26 (Part 22), Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26815	826.5	3.68	5.15	6.22
26915	836.5	3.75	4.65	6.38
27015	846.5	3.57	4.40	6.06
LTE Band 26 (Part 22), Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26840	829.0	3.75	5.23	6.33
26915	836.5	3.94	5.04	6.35
26990	844.0	3.55	5.14	6.36
LTE Band 26 (Part 22), Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26865	831.5	3.36	5.04	6.45
26915	836.5	3.55	5.16	6.85
26965	841.5	3.42	4.78	6.04

### Spectrum Plot of Worst Value

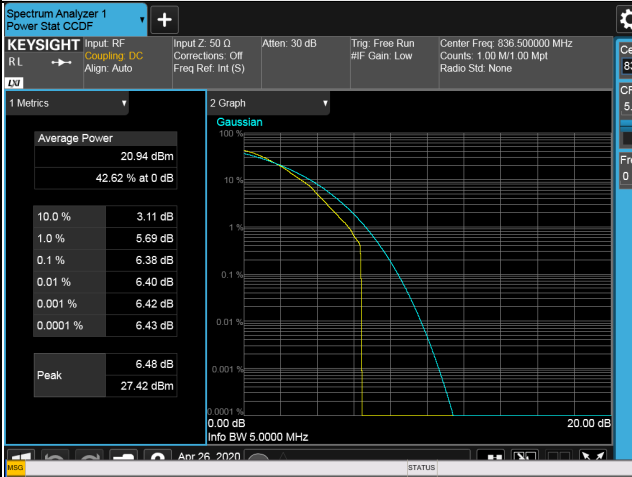
#### 1.4MHz / 64QAM



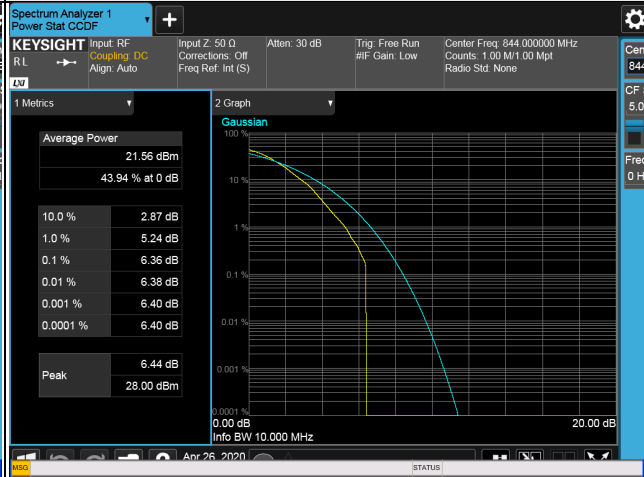
#### 3MHz / 64QAM



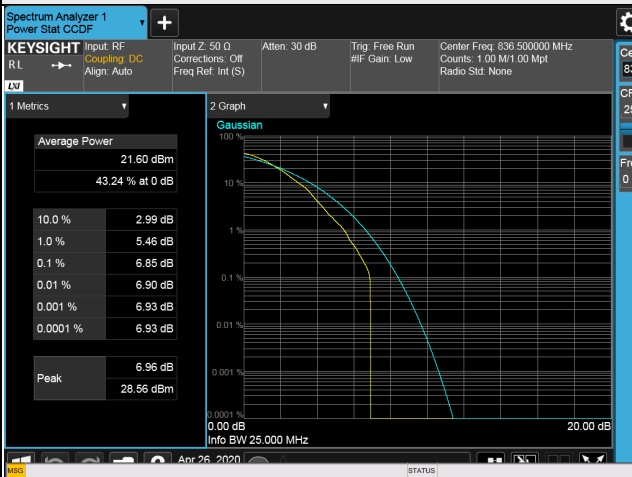
#### 5MHz / 64QAM



#### 10MHz / 64QAM



#### 15MHz / 64QAM

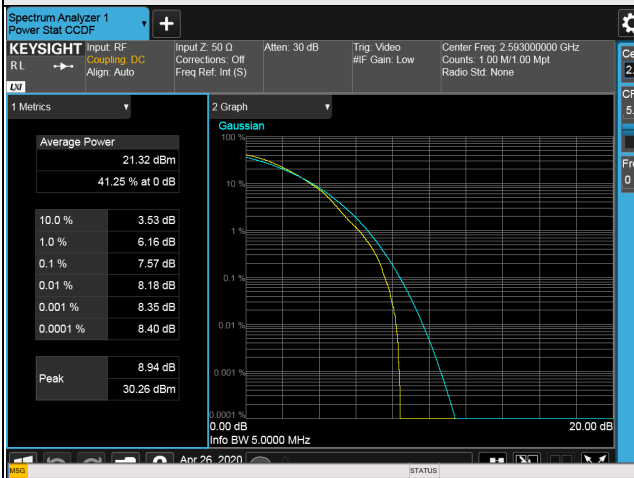


## LTE Band 41

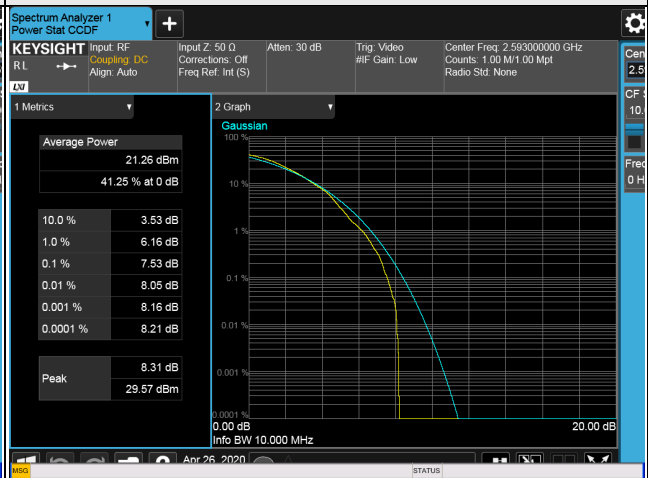
LTE Band 41, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
39675	2498.5	3.33	4.14	6.83
40620	2593	3.85	5.83	7.57
41565	2687.5	3.83	5.82	7.41
LTE Band 41, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
39700	2501	3.37	4.31	6.95
40620	2593	3.84	6.51	7.53
41540	2685	3.83	3.79	7.34
LTE Band 41, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
39725	2503.5	4.00	5.01	6.65
40620	2593	4.02	6.16	7.11
41515	2682.5	4.54	6.17	7.43
LTE Band 41, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
39750	2506	4.07	5.10	6.90
40620	2593	4.73	6.54	7.55
41490	2680	4.71	5.72	7.38

### Spectrum Plot of Worst Value

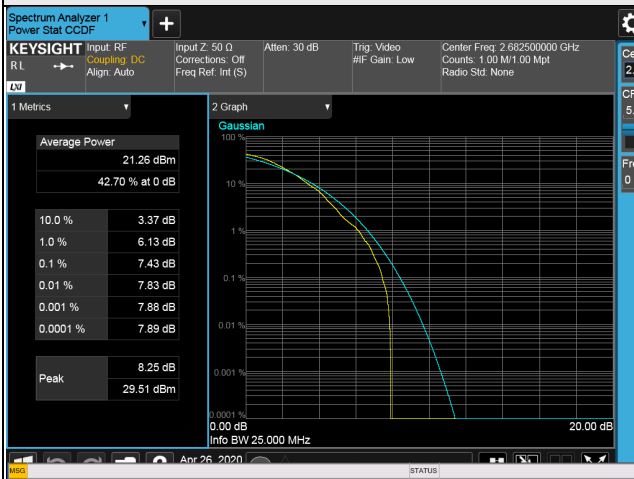
#### 5MHz / 64QAM



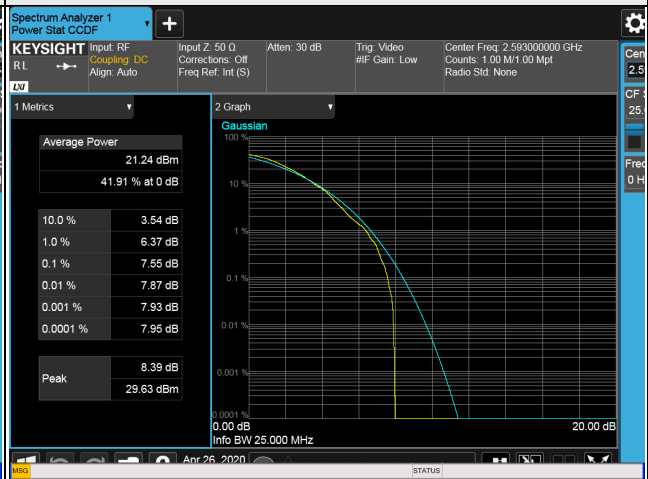
#### 10MHz / 64QAM



#### 15MHz / 64QAM



#### 20MHz / 64QAM



## LTE Band 66

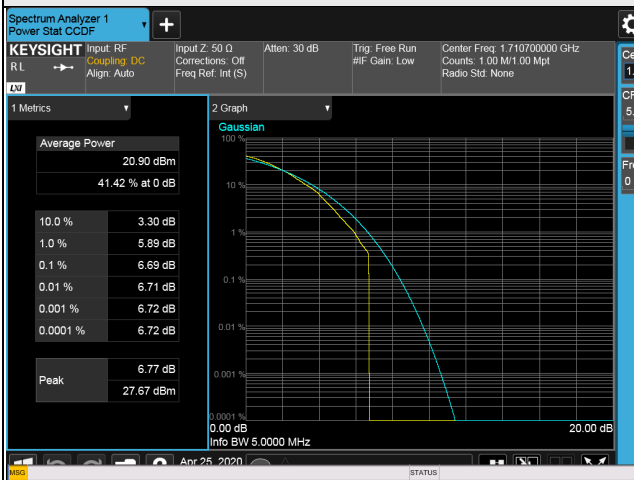
LTE Band 66, Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
131979	1710.7	3.73	4.49	6.69
132322	1745.0	3.66	4.47	6.68
132665	1779.3	3.95	5.06	6.36
LTE Band 66, Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
131987	1711.5	3.63	4.40	6.57
132322	1745.0	3.60	4.41	6.61
132657	1778.5	3.70	5.02	6.39
LTE Band 66, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
131997	1712.5	3.66	4.43	6.55
132322	1745.0	3.65	4.48	6.66
132647	1777.5	3.75	4.83	6.43
LTE Band 66, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
132022	1715.0	3.76	4.61	6.83
132322	1745.0	3.74	4.63	6.85
132622	1775.0	3.58	4.37	6.65
LTE Band 66, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
132047	1717.5	3.71	4.59	6.67
132322	1745.0	3.69	4.52	6.71
132597	1772.5	3.46	4.18	6.27



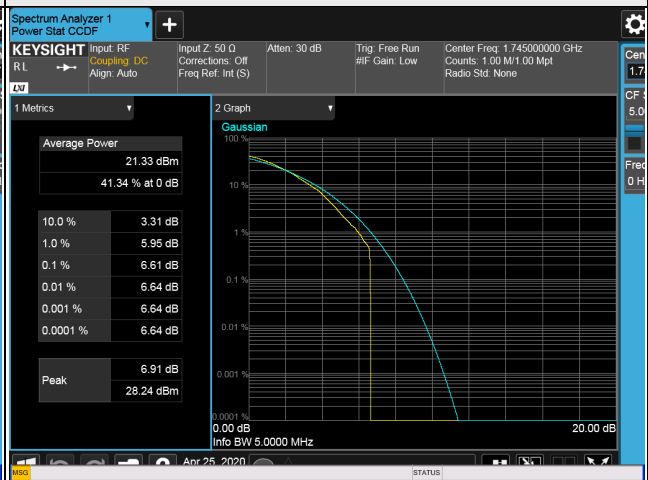
LTE Band 66, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
132072	1720.0	3.76	4.57	6.96
132322	1745.0	3.73	4.56	6.80
132572	1770.0	3.63	4.79	6.24

### Spectrum Plot of Worst Value

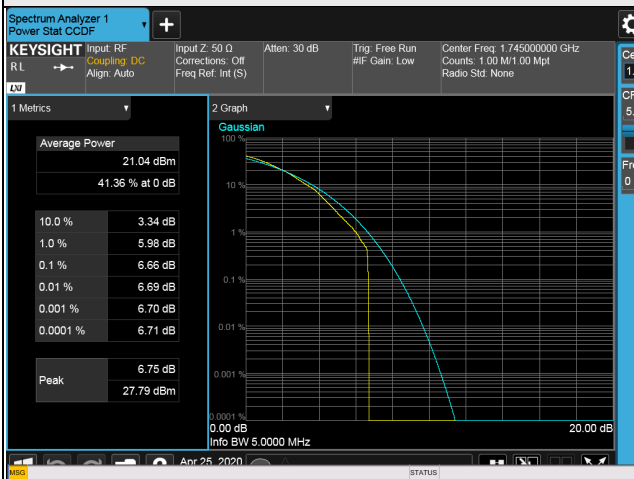
#### 1.4MHz / 64QAM



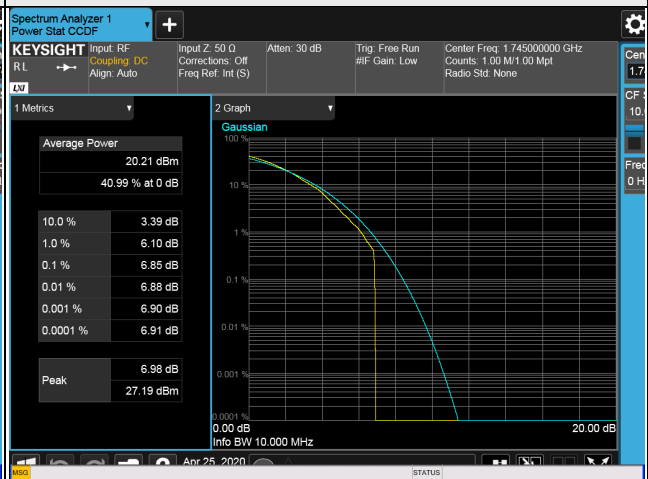
#### 3MHz / 64QAM



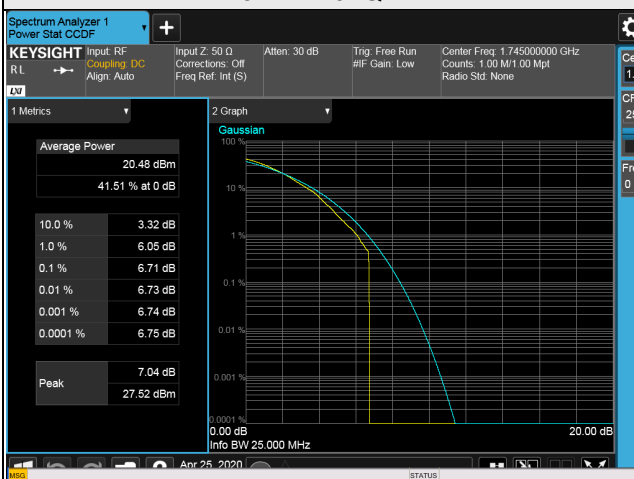
#### 5MHz / 64QAM



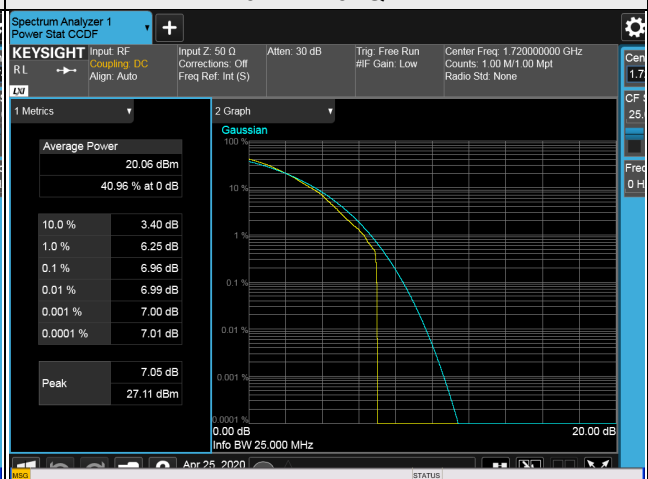
#### 10MHz / 64QAM



#### 15MHz / 64QAM



#### 20MHz / 64QAM



## 4.7 Conducted Spurious Emissions

### 4.7.1 Limits of Conducted Spurious Emissions Measurement

For n41

In the FCC 27.53(m)(4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log(P)$  dB. The emission limit equal to  $-25\text{dBm}$ .

For LTE Band 2, LTE Band 25, LTE Band 26

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to  $-13\text{dBm}$ .

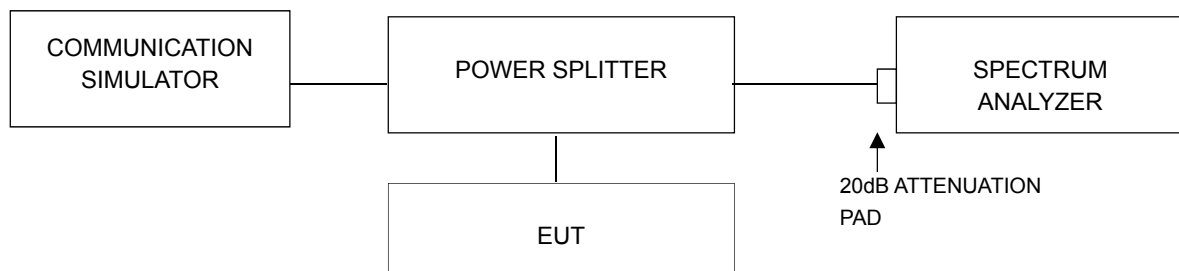
For LTE Band 41

In the FCC 27.53(m)(4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log(P)$  dB. The emission limit equal to  $-25\text{dBm}$ .

For LTE Band 66

In the FCC 27.53(h), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB. The emission limit equal to  $-13\text{dBm}$ .

### 4.7.2 Test Setup



### 4.7.3 Test Procedure

- All measurements were done at 3 channels: low, middle and high operational frequency range.
- When the spectrum scanned from 9kHz to 7GHz / 8GHz / 18GHz / 26GHz / 27GHz / 30GHz, it shall be connected to the attenuator with the carried frequency.

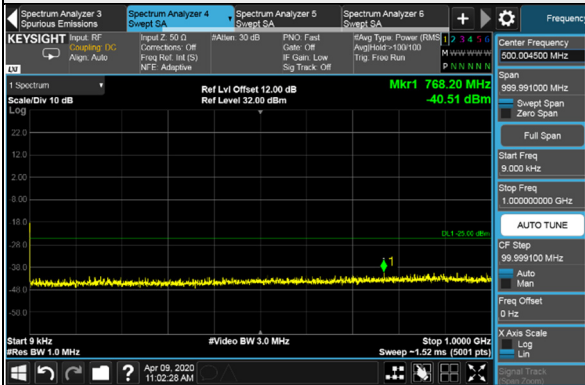
### 4.7.4 Test Results

n41

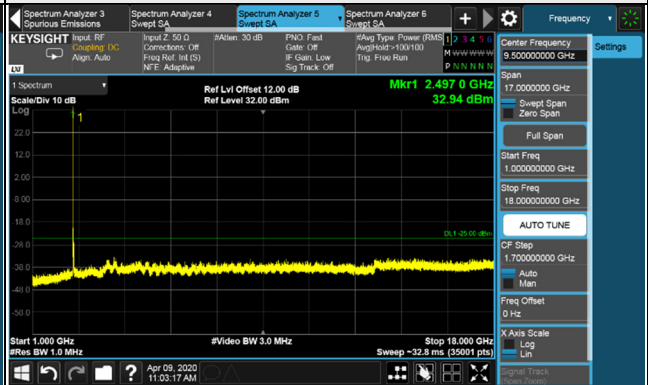
Channel Bandwidth: 20MHz

Channel 501204 (2506.02MHz)

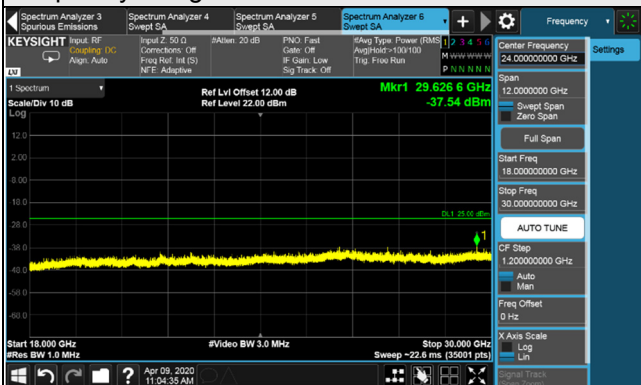
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz

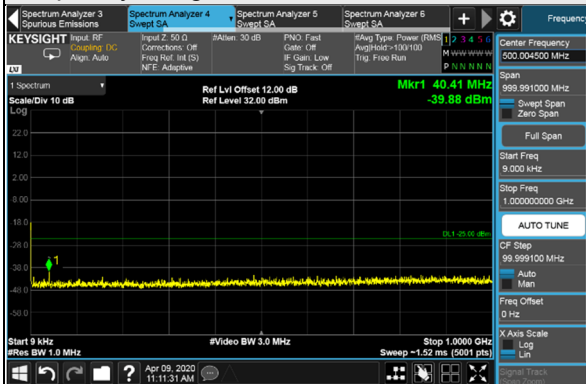


\*The 9kHz signal over the limit is from Spectrum.

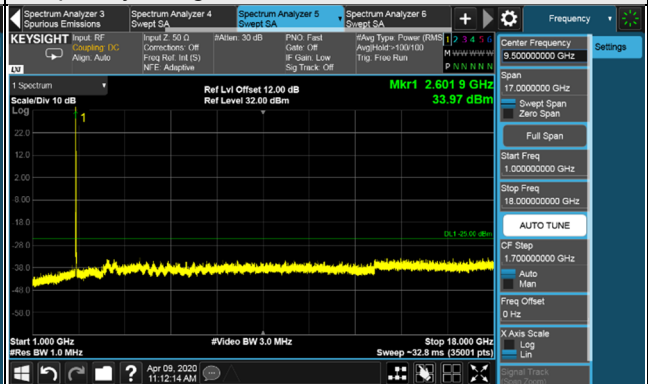
Channel Bandwidth: 20MHz

Channel 518598 (2592.99MHz)

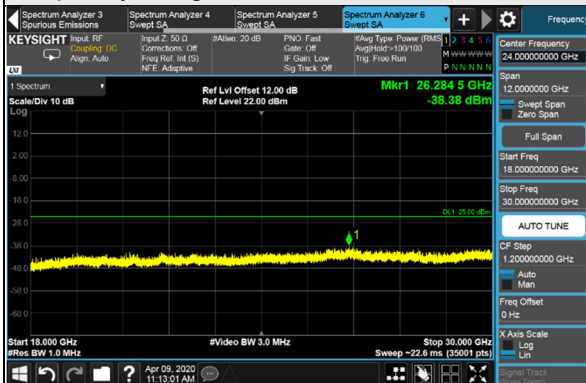
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz

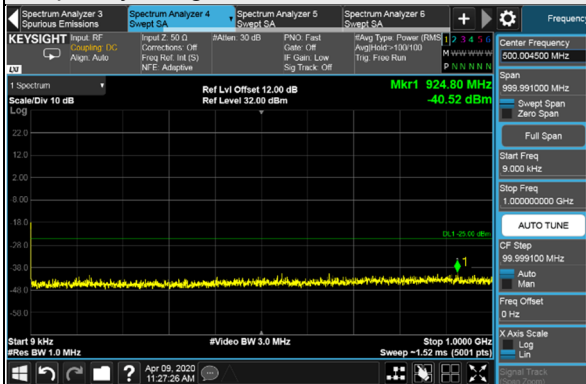


\*The 9kHz signal over the limit is from Spectrum.

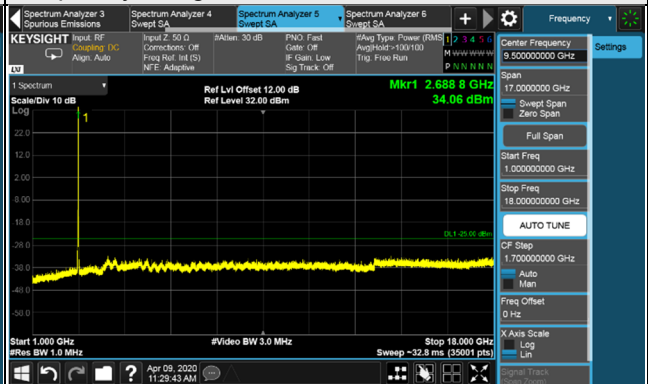
Channel Bandwidth: 20MHz

Channel 535998 (2679.99MHz)

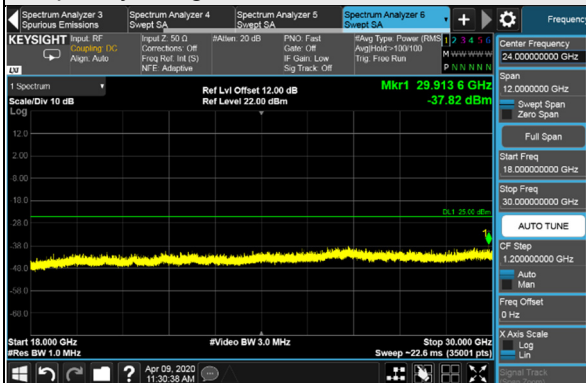
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz

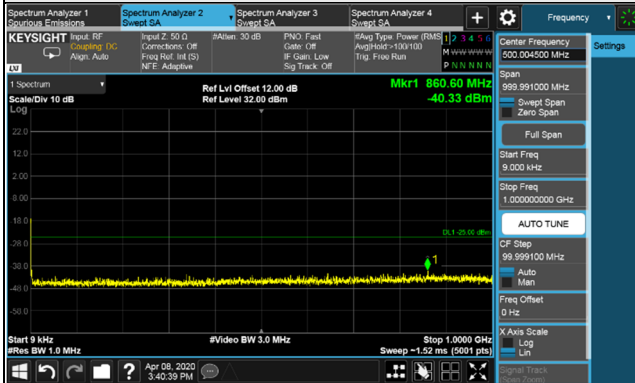


\*The 9kHz signal over the limit is from Spectrum.

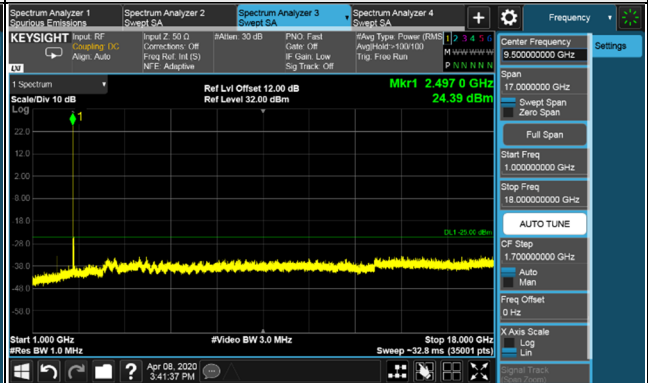
Channel Bandwidth: 40MHz

Channel 503202 (2516.01MHz)

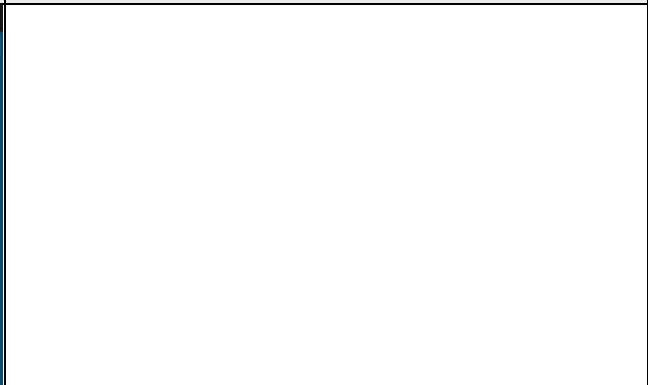
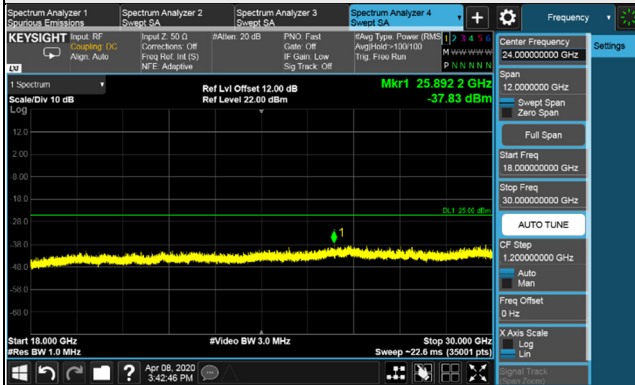
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz

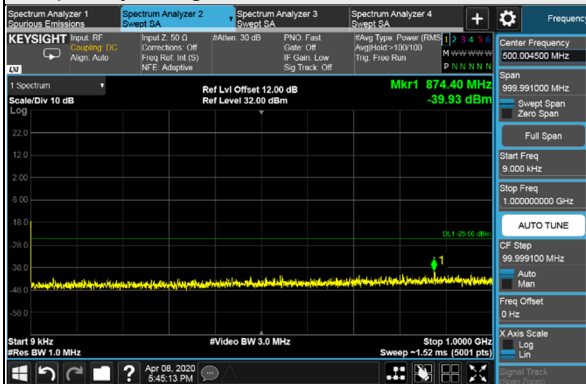


\*The 9kHz signal over the limit is from Spectrum.

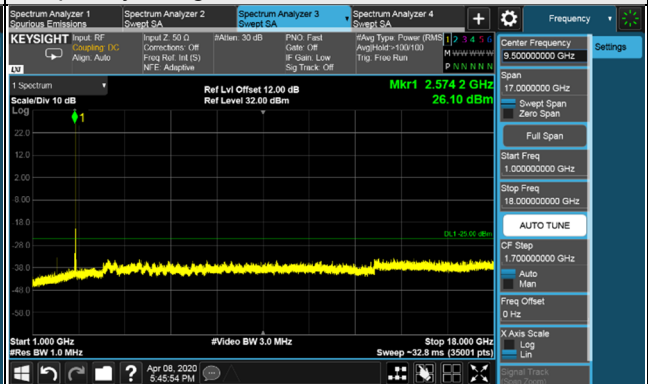
Channel Bandwidth: 40MHz

Channel 518598 (2592.99MHz)

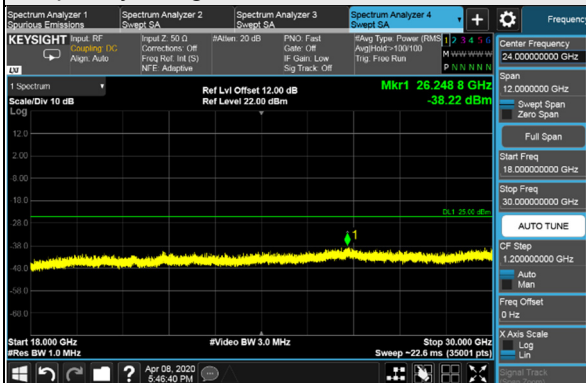
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz



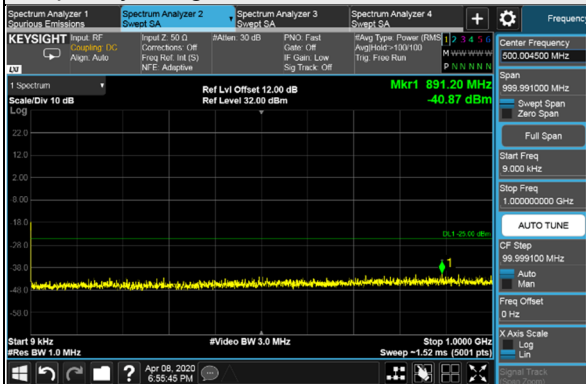
\*The 9kHz signal over the limit is from Spectrum.



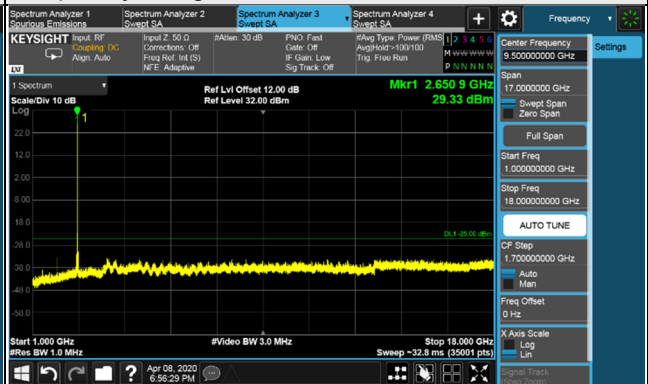
Channel Bandwidth: 40MHz

Channel 534000 (2670.00MHz)

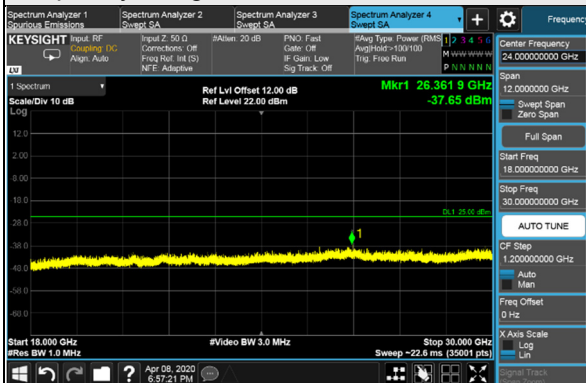
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz

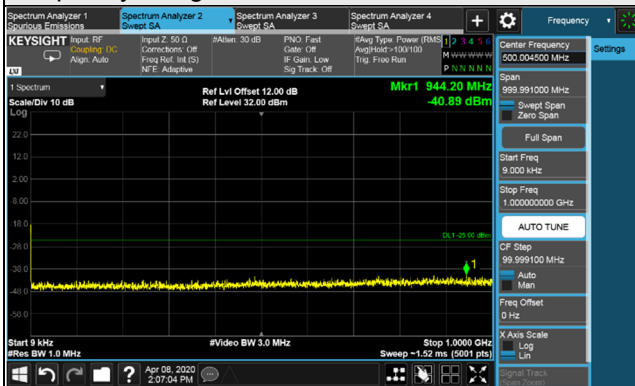


\*The 9kHz signal over the limit is from Spectrum.

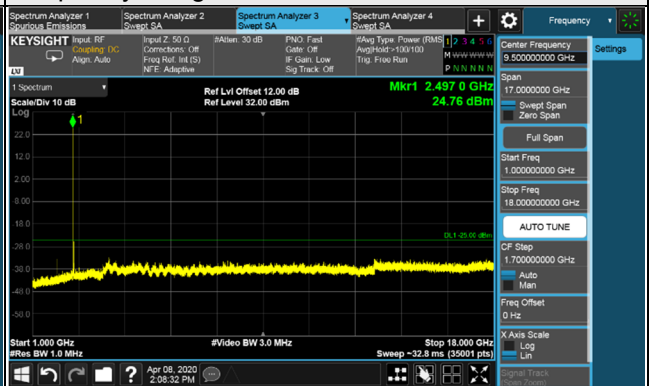
Channel Bandwidth: 50MHz

Channel 504204 (2521.02MHz)

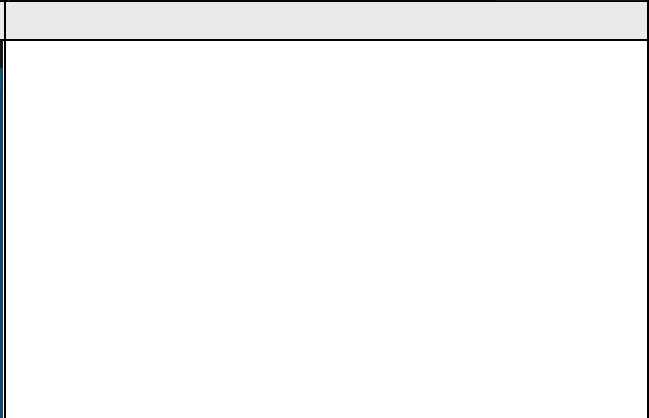
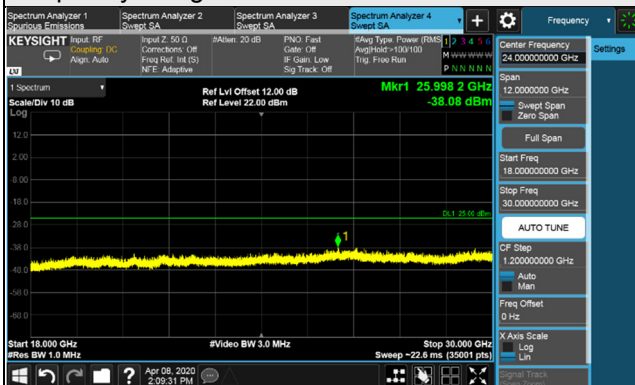
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz



\*The 9kHz signal over the limit is from Spectrum.