

LTE Band 41

Channel Bandwidth: 15MHz

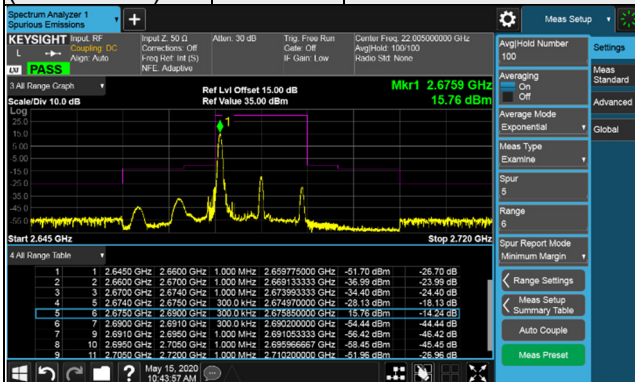
<p>Channel 39725 (2503.5MHz)</p> <p>256QAM 1 RB / 0 RB Offset</p> <p>Scale/Div 10.0 dB</p> <p>Start 2.466 GHz Stop 2.541 GHz</p> <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>ΔLimit</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>2.4960 GHz</td><td>2.4960 GHz</td><td>1.000 MHz</td><td>2.494951697 GHz</td><td>-30.60 dBm</td><td>-5.600 dB</td></tr> <tr><td>2</td><td>4</td><td>2.4960 GHz</td><td>2.4960 GHz</td><td>300.0 kHz</td><td>2.495963333 GHz</td><td>-25.22 dBm</td><td>-1.215 dB</td></tr> <tr><td>3</td><td>5</td><td>2.4960 GHz</td><td>2.5110 GHz</td><td>300.0 kHz</td><td>2.496190000 GHz</td><td>-13.15 dBm</td><td>-1.835 dB</td></tr> <tr><td>4</td><td>6</td><td>2.5110 GHz</td><td>2.5120 GHz</td><td>300.0 kHz</td><td>2.511600000 GHz</td><td>-54.29 dBm</td><td>-44.29 dB</td></tr> <tr><td>5</td><td>8</td><td>2.5120 GHz</td><td>2.5160 GHz</td><td>1.000 MHz</td><td>2.512700000 GHz</td><td>-55.57 dBm</td><td>-45.57 dB</td></tr> <tr><td>6</td><td>9</td><td>2.5160 GHz</td><td>2.5260 GHz</td><td>1.000 MHz</td><td>2.516516667 GHz</td><td>-57.72 dBm</td><td>-44.72 dB</td></tr> <tr><td>7</td><td>10</td><td>2.5260 GHz</td><td>2.5410 GHz</td><td>1.000 MHz</td><td>2.530020000 GHz</td><td>-51.85 dBm</td><td>-26.85 dB</td></tr> </tbody> </table>	Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit	1	2	2.4960 GHz	2.4960 GHz	1.000 MHz	2.494951697 GHz	-30.60 dBm	-5.600 dB	2	4	2.4960 GHz	2.4960 GHz	300.0 kHz	2.495963333 GHz	-25.22 dBm	-1.215 dB	3	5	2.4960 GHz	2.5110 GHz	300.0 kHz	2.496190000 GHz	-13.15 dBm	-1.835 dB	4	6	2.5110 GHz	2.5120 GHz	300.0 kHz	2.511600000 GHz	-54.29 dBm	-44.29 dB	5	8	2.5120 GHz	2.5160 GHz	1.000 MHz	2.512700000 GHz	-55.57 dBm	-45.57 dB	6	9	2.5160 GHz	2.5260 GHz	1.000 MHz	2.516516667 GHz	-57.72 dBm	-44.72 dB	7	10	2.5260 GHz	2.5410 GHz	1.000 MHz	2.530020000 GHz	-51.85 dBm	-26.85 dB	<p>Channel 40620 (2593.0MHz)</p> <p>256QAM 1 RB / 0 RB Offset</p> <p>Scale/Div 10.0 dB</p> <p>Start 2.556 GHz Stop 2.631 GHz</p> <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>ΔLimit</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>2.5565 GHz</td><td>2.5705 GHz</td><td>1.000 MHz</td><td>2.569000000 GHz</td><td>-51.79 dBm</td><td>-26.79 dB</td></tr> <tr><td>2</td><td>2</td><td>2.5705 GHz</td><td>2.5805 GHz</td><td>1.000 MHz</td><td>2.579883333 GHz</td><td>-36.52 dBm</td><td>-23.52 dB</td></tr> <tr><td>3</td><td>3</td><td>2.5805 GHz</td><td>2.5845 GHz</td><td>1.000 MHz</td><td>2.584500000 GHz</td><td>-34.29 dBm</td><td>-24.29 dB</td></tr> <tr><td>4</td><td>5</td><td>2.5845 GHz</td><td>2.5855 GHz</td><td>300.0 kHz</td><td>2.585493333 GHz</td><td>-26.70 dBm</td><td>-15.70 dB</td></tr> <tr><td>5</td><td>6</td><td>2.5855 GHz</td><td>2.6005 GHz</td><td>300.0 kHz</td><td>2.588375000 GHz</td><td>-15.94 dBm</td><td>-14.05 dB</td></tr> <tr><td>6</td><td>7</td><td>2.6005 GHz</td><td>2.6015 GHz</td><td>300.0 kHz</td><td>2.600710000 GHz</td><td>-50.97 dBm</td><td>-43.97 dB</td></tr> <tr><td>7</td><td>9</td><td>2.6015 GHz</td><td>2.6055 GHz</td><td>1.000 MHz</td><td>2.601666667 GHz</td><td>-45.92 dBm</td><td>-45.92 dB</td></tr> <tr><td>8</td><td>10</td><td>2.6055 GHz</td><td>2.6155 GHz</td><td>1.000 MHz</td><td>2.605966667 GHz</td><td>-58.60 dBm</td><td>-46.60 dB</td></tr> <tr><td>9</td><td>11</td><td>2.6155 GHz</td><td>2.6305 GHz</td><td>1.000 MHz</td><td>2.617150000 GHz</td><td>-51.88 dBm</td><td>-26.88 dB</td></tr> </tbody> </table>	Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit	1	2	2.5565 GHz	2.5705 GHz	1.000 MHz	2.569000000 GHz	-51.79 dBm	-26.79 dB	2	2	2.5705 GHz	2.5805 GHz	1.000 MHz	2.579883333 GHz	-36.52 dBm	-23.52 dB	3	3	2.5805 GHz	2.5845 GHz	1.000 MHz	2.584500000 GHz	-34.29 dBm	-24.29 dB	4	5	2.5845 GHz	2.5855 GHz	300.0 kHz	2.585493333 GHz	-26.70 dBm	-15.70 dB	5	6	2.5855 GHz	2.6005 GHz	300.0 kHz	2.588375000 GHz	-15.94 dBm	-14.05 dB	6	7	2.6005 GHz	2.6015 GHz	300.0 kHz	2.600710000 GHz	-50.97 dBm	-43.97 dB	7	9	2.6015 GHz	2.6055 GHz	1.000 MHz	2.601666667 GHz	-45.92 dBm	-45.92 dB	8	10	2.6055 GHz	2.6155 GHz	1.000 MHz	2.605966667 GHz	-58.60 dBm	-46.60 dB	9	11	2.6155 GHz	2.6305 GHz	1.000 MHz	2.617150000 GHz	-51.88 dBm	-26.88 dB
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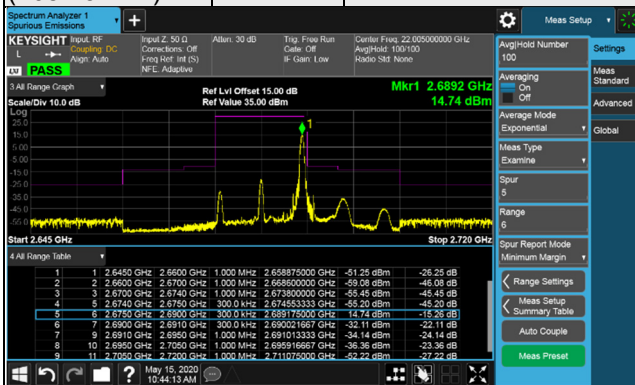
<p>Channel 39725 (2503.5MHz)</p> <p>256QAM 75 RB / 0 RB Offset</p> <p>Scale/Div 10.0 dB</p> <p>Start 2.466 GHz Stop 2.541 GHz</p> <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>ΔLimit</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>2.4960 GHz</td><td>2.4960 GHz</td><td>1.000 MHz</td><td>2.495000000 GHz</td><td>-32.39 dBm</td><td>-7.39 dB</td></tr> <tr><td>2</td><td>4</td><td>2.4960 GHz</td><td>2.4960 GHz</td><td>300.0 kHz</td><td>2.498971697 GHz</td><td>-35.43 dBm</td><td>-10.43 dB</td></tr> <tr><td>3</td><td>5</td><td>2.4960 GHz</td><td>2.5110 GHz</td><td>300.0 kHz</td><td>2.507400000 GHz</td><td>-1.05 dBm</td><td>-31.05 dB</td></tr> <tr><td>4</td><td>6</td><td>2.5110 GHz</td><td>2.5120 GHz</td><td>300.0 kHz</td><td>2.511733333 GHz</td><td>-33.35 dBm</td><td>-23.35 dB</td></tr> <tr><td>5</td><td>8</td><td>2.5120 GHz</td><td>2.5160 GHz</td><td>1.000 MHz</td><td>2.512333333 GHz</td><td>-30.36 dBm</td><td>-20.36 dB</td></tr> <tr><td>6</td><td>9</td><td>2.5160 GHz</td><td>2.5260 GHz</td><td>1.000 MHz</td><td>2.517033333 GHz</td><td>-31.99 dBm</td><td>-18.99 dB</td></tr> <tr><td>7</td><td>10</td><td>2.5260 GHz</td><td>2.5410 GHz</td><td>1.000 MHz</td><td>2.526400000 GHz</td><td>-35.78 dBm</td><td>-10.78 dB</td></tr> </tbody> </table>	Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit	1	2	2.4960 GHz	2.4960 GHz	1.000 MHz	2.495000000 GHz	-32.39 dBm	-7.39 dB	2	4	2.4960 GHz	2.4960 GHz	300.0 kHz	2.498971697 GHz	-35.43 dBm	-10.43 dB	3	5	2.4960 GHz	2.5110 GHz	300.0 kHz	2.507400000 GHz	-1.05 dBm	-31.05 dB	4	6	2.5110 GHz	2.5120 GHz	300.0 kHz	2.511733333 GHz	-33.35 dBm	-23.35 dB	5	8	2.5120 GHz	2.5160 GHz	1.000 MHz	2.512333333 GHz	-30.36 dBm	-20.36 dB	6	9	2.5160 GHz	2.5260 GHz	1.000 MHz	2.517033333 GHz	-31.99 dBm	-18.99 dB	7	10	2.5260 GHz	2.5410 GHz	1.000 MHz	2.526400000 GHz	-35.78 dBm	-10.78 dB	<p>Channel 40620 (2593.0MHz)</p> <p>256QAM 75 RB / 0 RB Offset</p> <p>Scale/Div 10.0 dB</p> <p>Start 2.556 GHz Stop 2.631 GHz</p> <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>ΔLimit</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>2.5565 GHz</td><td>2.5705 GHz</td><td>1.000 MHz</td><td>2.569825000 GHz</td><td>-39.12 dBm</td><td>-14.12 dB</td></tr> <tr><td>2</td><td>3</td><td>2.5705 GHz</td><td>2.5805 GHz</td><td>1.000 MHz</td><td>2.578833333 GHz</td><td>-36.08 dBm</td><td>-21.08 dB</td></tr> <tr><td>3</td><td>2</td><td>2.5805 GHz</td><td>2.5845 GHz</td><td>1.000 MHz</td><td>2.583666667 GHz</td><td>-34.57 dBm</td><td>-24.57 dB</td></tr> <tr><td>4</td><td>6</td><td>2.5845 GHz</td><td>2.5855 GHz</td><td>300.0 kHz</td><td>2.585300000 GHz</td><td>-36.35 dBm</td><td>-26.35 dB</td></tr> <tr><td>5</td><td>7</td><td>2.5855 GHz</td><td>2.6005 GHz</td><td>300.0 kHz</td><td>2.597100000 GHz</td><td>-20.14 dBm</td><td>-20.14 dB</td></tr> <tr><td>6</td><td>7</td><td>2.6005 GHz</td><td>2.6015 GHz</td><td>300.0 kHz</td><td>2.600523333 GHz</td><td>-36.39 dBm</td><td>-26.39 dB</td></tr> <tr><td>7</td><td>9</td><td>2.6015 GHz</td><td>2.6055 GHz</td><td>1.000 MHz</td><td>2.603153333 GHz</td><td>-33.86 dBm</td><td>-23.86 dB</td></tr> <tr><td>8</td><td>10</td><td>2.6055 GHz</td><td>2.6155 GHz</td><td>1.000 MHz</td><td>2.608500000 GHz</td><td>-35.81 dBm</td><td>-22.51 dB</td></tr> <tr><td>9</td><td>11</td><td>2.6155 GHz</td><td>2.6305 GHz</td><td>1.000 MHz</td><td>2.618700000 GHz</td><td>-40.13 dBm</td><td>-16.13 dB</td></tr> </tbody> </table>	Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit	1	2	2.5565 GHz	2.5705 GHz	1.000 MHz	2.569825000 GHz	-39.12 dBm	-14.12 dB	2	3	2.5705 GHz	2.5805 GHz	1.000 MHz	2.578833333 GHz	-36.08 dBm	-21.08 dB	3	2	2.5805 GHz	2.5845 GHz	1.000 MHz	2.583666667 GHz	-34.57 dBm	-24.57 dB	4	6	2.5845 GHz	2.5855 GHz	300.0 kHz	2.585300000 GHz	-36.35 dBm	-26.35 dB	5	7	2.5855 GHz	2.6005 GHz	300.0 kHz	2.597100000 GHz	-20.14 dBm	-20.14 dB	6	7	2.6005 GHz	2.6015 GHz	300.0 kHz	2.600523333 GHz	-36.39 dBm	-26.39 dB	7	9	2.6015 GHz	2.6055 GHz	1.000 MHz	2.603153333 GHz	-33.86 dBm	-23.86 dB	8	10	2.6055 GHz	2.6155 GHz	1.000 MHz	2.608500000 GHz	-35.81 dBm	-22.51 dB	9	11	2.6155 GHz	2.6305 GHz	1.000 MHz	2.618700000 GHz	-40.13 dBm	-16.13 dB
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit																																																																																																																																										
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2	4	2.4960 GHz	2.4960 GHz	300.0 kHz	2.498971697 GHz	-35.43 dBm	-10.43 dB																																																																																																																																										
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Channel Bandwidth: 15MHz

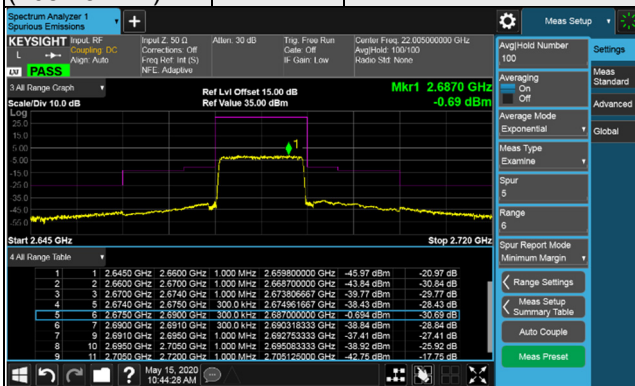
Channel 41515 (2682.5MHz) 256QAM 1 RB / 0 RB Offset



Channel 41515 (2682.5MHz) 256QAM 1 RB / 74 RB Offset

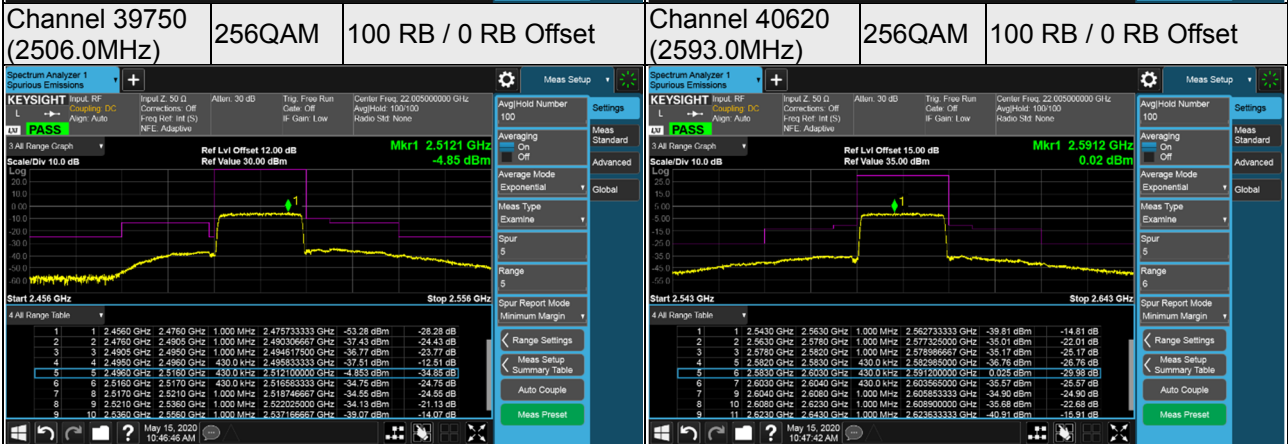
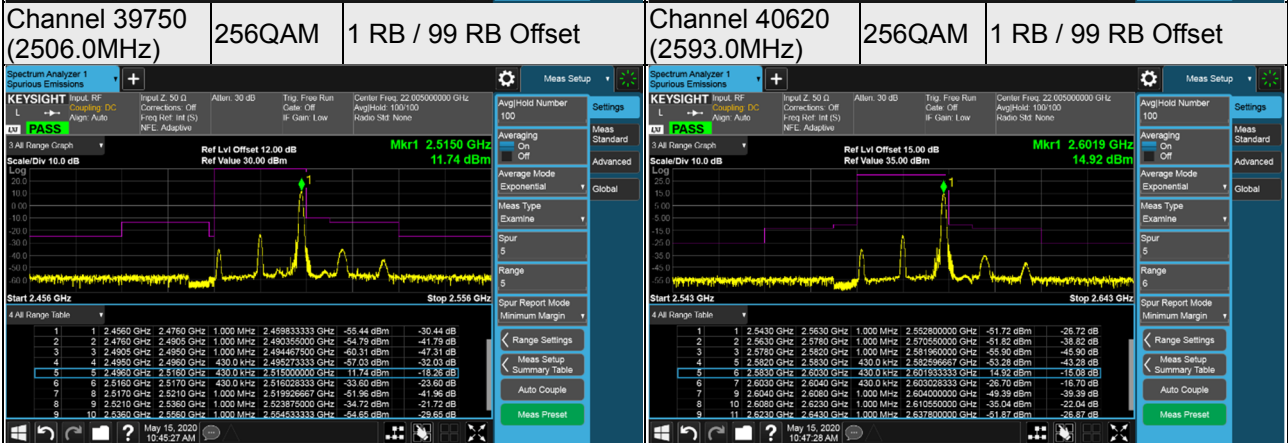
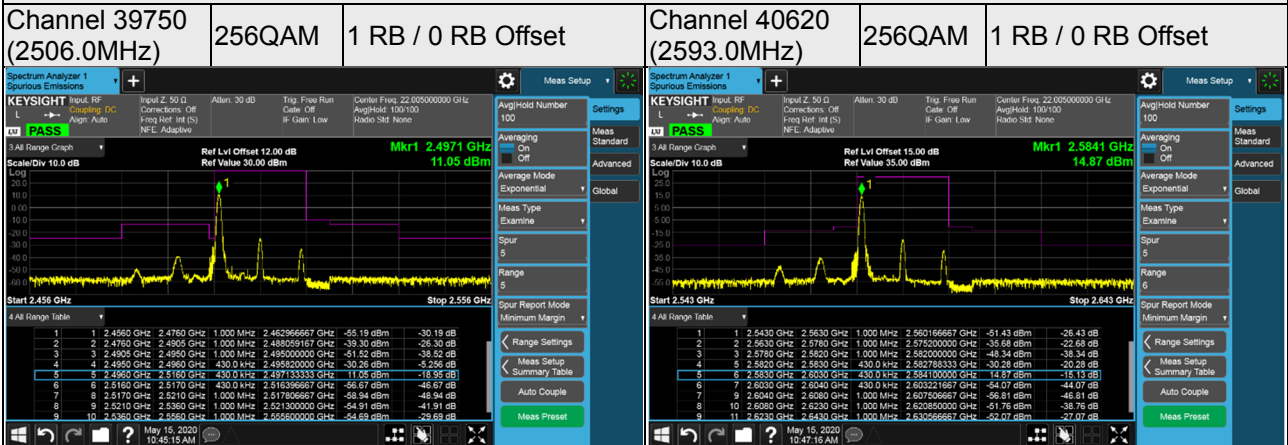


Channel 41515 (2682.5MHz) 256QAM 75 RB / 0 RB Offset



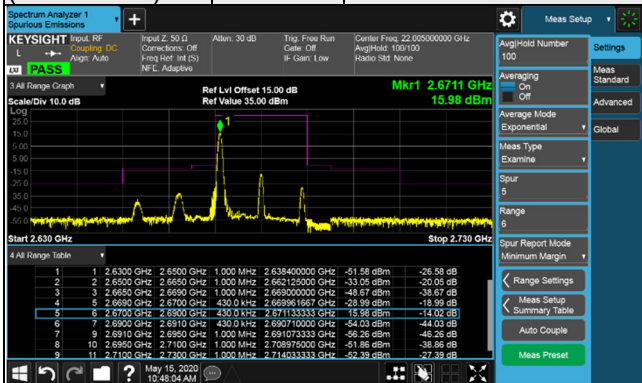
LTE Band 41

Channel Bandwidth: 20MHz

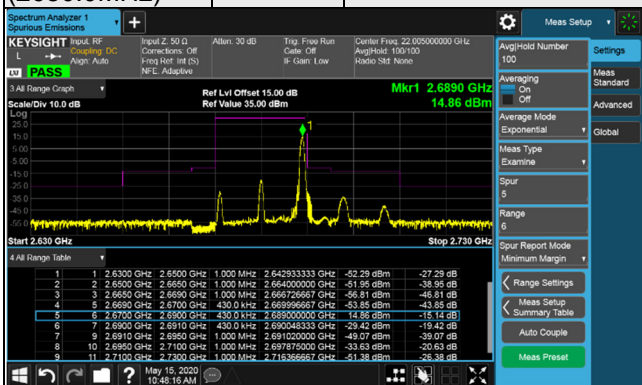


Channel Bandwidth: 20MHz

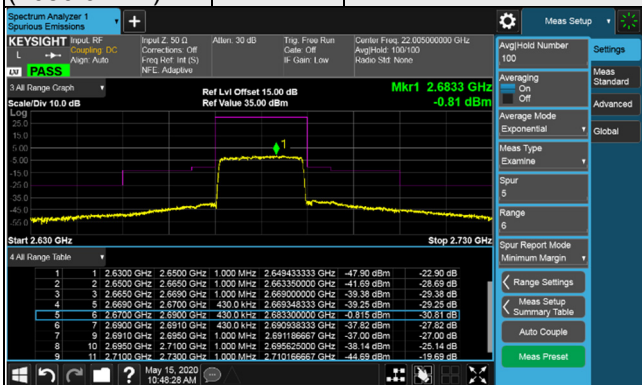
Channel 41490 (2680.0MHz) 256QAM 1 RB / 0 RB Offset



Channel 41490 (2680.0MHz) 256QAM 1 RB / 99 RB Offset

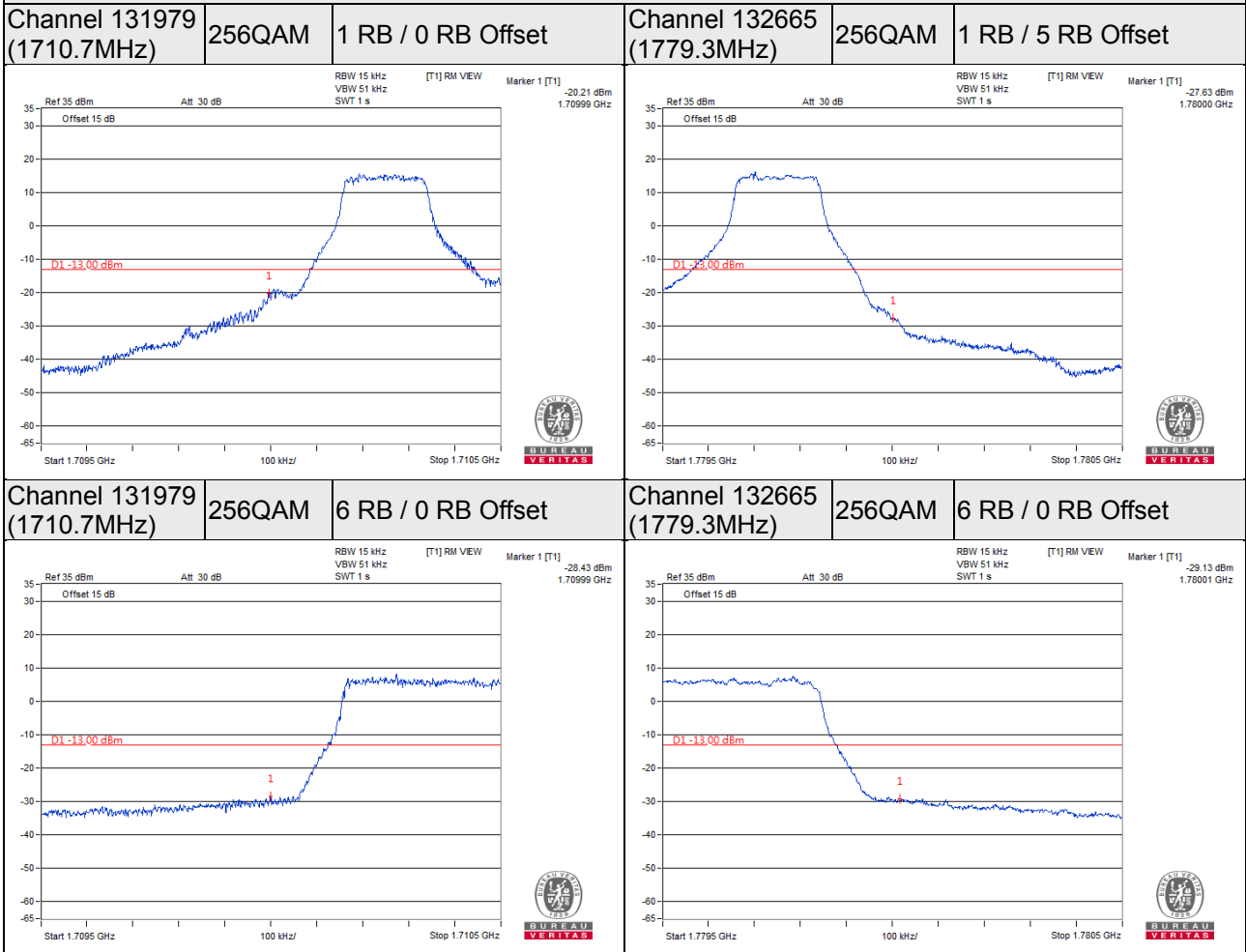


Channel 41490 (2680.0MHz) 256QAM 100 RB / 0 RB Offset



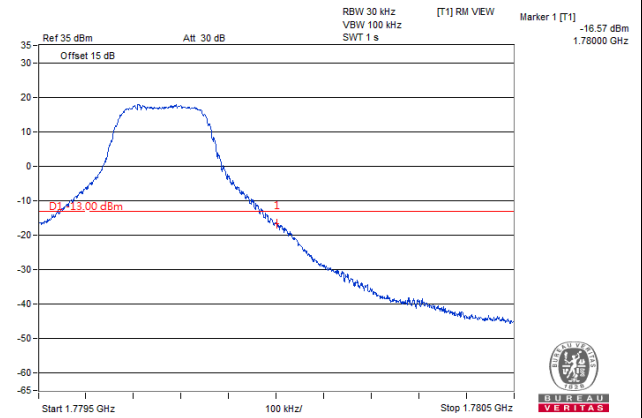
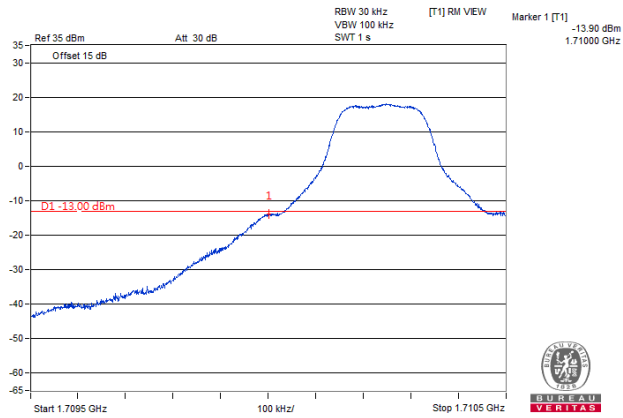
LTE Band 66

Channel Bandwidth: 1.4MHz

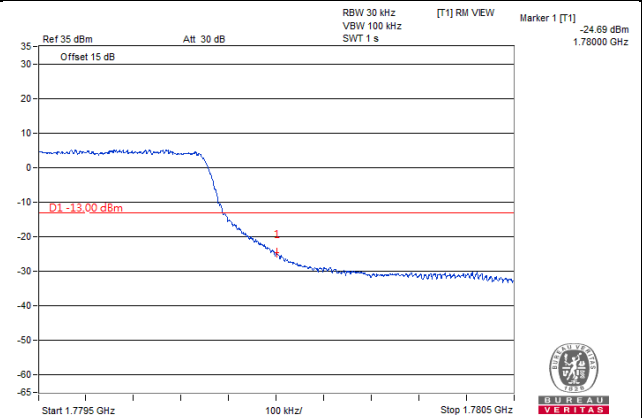
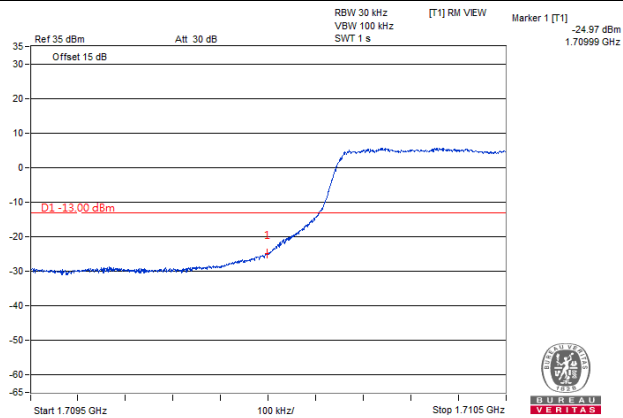


Channel Bandwidth: 3MHz

Channel 131987 (1711.5MHz)	256QAM	1 RB / 0 RB Offset	Channel 132657 (1778.5MHz)	256QAM	1 RB / 14 RB Offset
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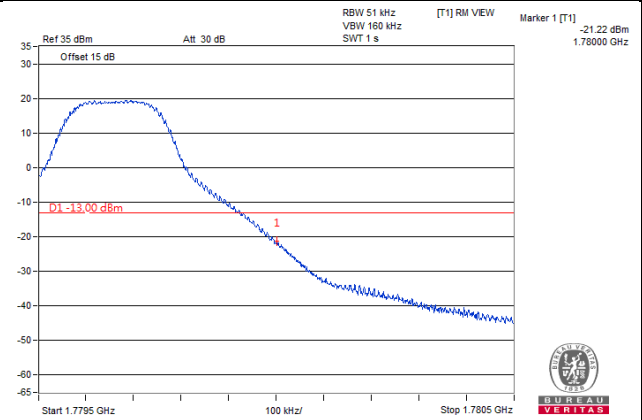
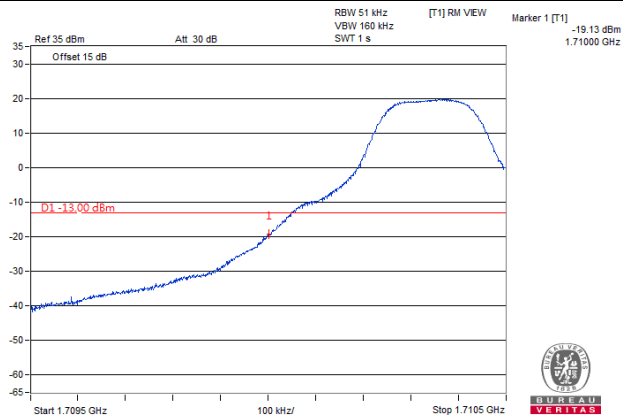


Channel 131987 (1711.5MHz)	256QAM	15 RB / 0 RB Offset	Channel 132657 (1778.5MHz)	256QAM	15 RB / 0 RB Offset
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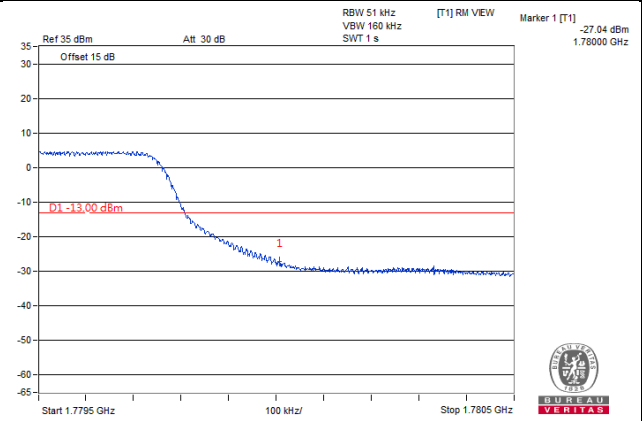
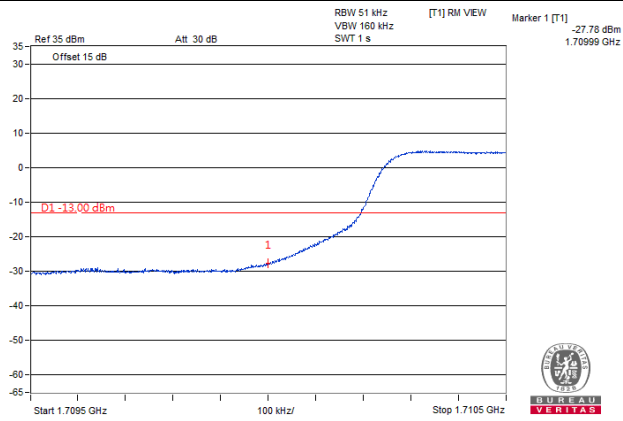


Channel Bandwidth: 5MHz

Channel 131997 (1712.5MHz)	256QAM	1 RB / 0 RB Offset	Channel 132647 (1777.5MHz)	256QAM	1 RB / 24 RB Offset
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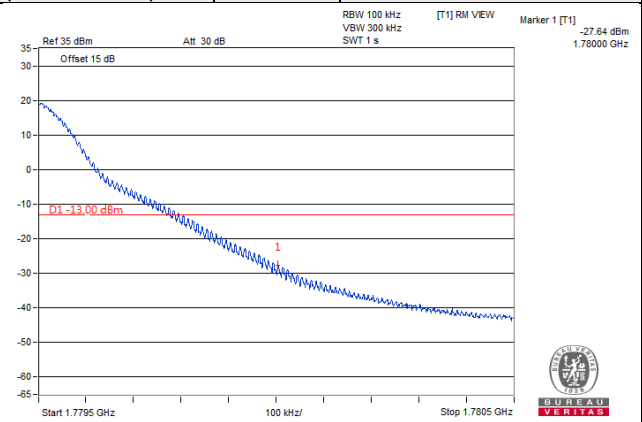
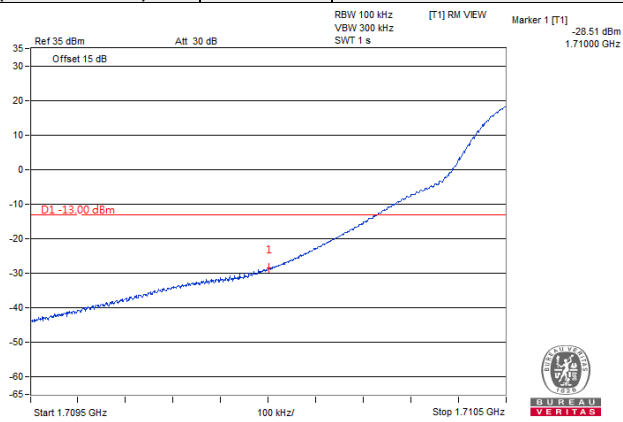


Channel 131997 (1712.5MHz)	256QAM	25 RB / 0 RB Offset	Channel 132647 (1777.5MHz)	256QAM	25 RB / 0 RB Offset
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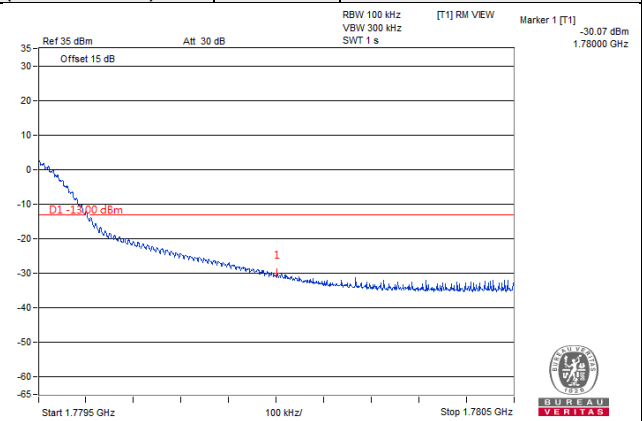
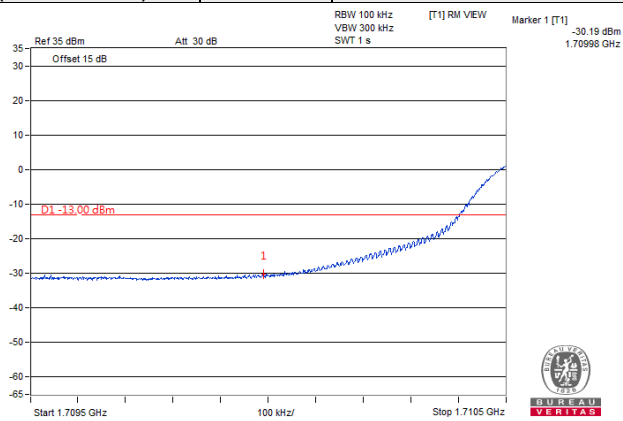


Channel Bandwidth: 10MHz

Channel 132022 (1715.0MHz)	256QAM	1 RB / 0 RB Offset	Channel 132622 (1775.0MHz)	256QAM	1 RB / 49 RB Offset
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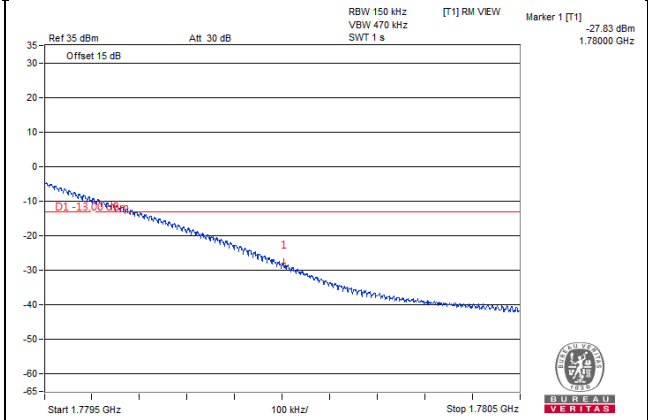
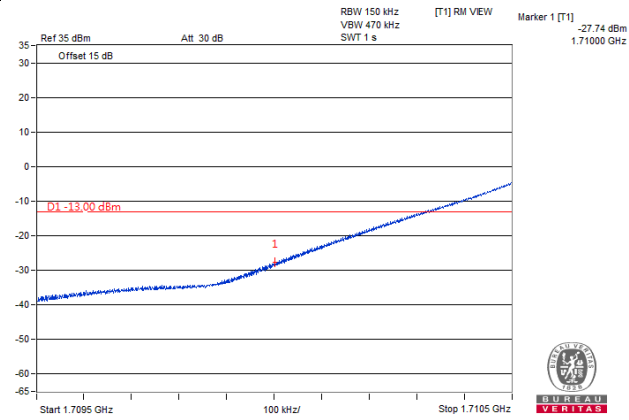


Channel 132022 (1715.0MHz)	256QAM	50 RB / 0 RB Offset	Channel 132622 (1775.0MHz)	256QAM	50 RB / 0 RB Offset
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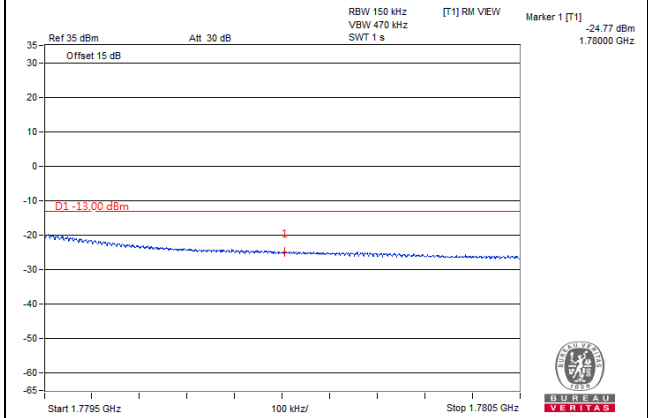
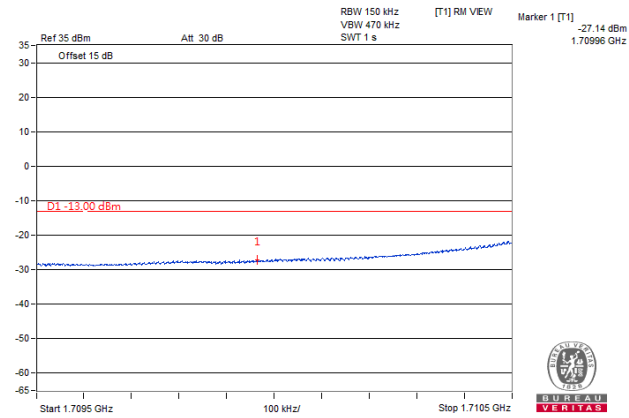


Channel Bandwidth: 15MHz

Channel 132047 (1717.5MHz)	256QAM	1 RB / 0 RB Offset	Channel 132597 (1772.5MHz)	256QAM	1 RB / 74 RB Offset
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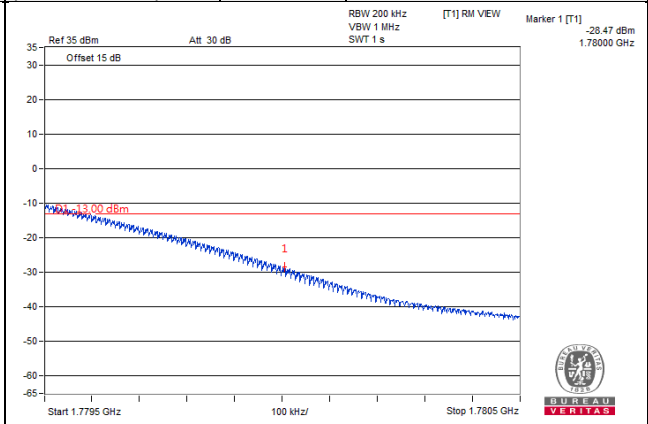
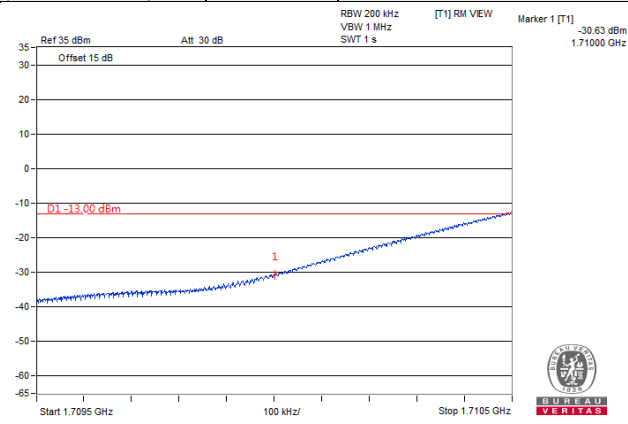


Channel 132047 (1717.5MHz)	256QAM	75 RB / 0 RB Offset	Channel 132597 (1772.5MHz)	256QAM	75 RB / 0 RB Offset
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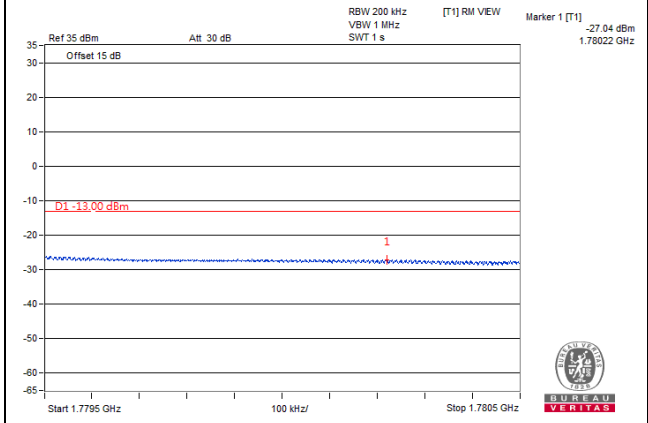
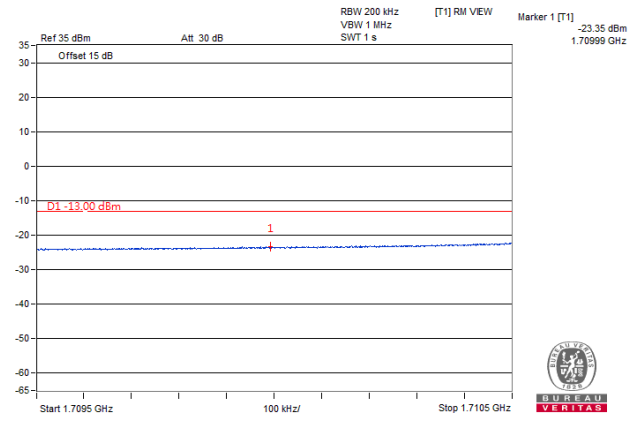


Channel Bandwidth: 20MHz

Channel 132072 (1720.0MHz)	256QAM	1 RB / 0 RB Offset	Channel 132572 (1770.0MHz)	256QAM	1 RB / 99 RB Offset
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Channel 132072 (1720.0MHz)	256QAM	100 RB / 0 RB Offset	Channel 132572 (1770.0MHz)	256QAM	100 RB / 0 RB Offset
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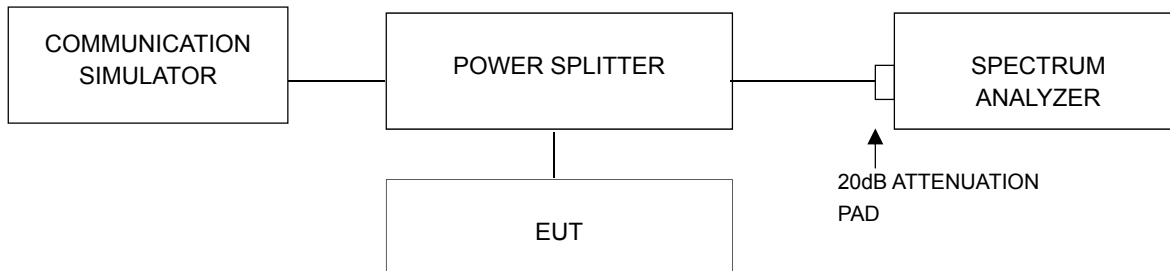


4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.6.2 Test Setup



4.6.3 Test Procedures

- Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1%.

4.6.4 Test Results

n41

n41, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501204	2506.02	4.40	5.02	6.18	6.13	8.52
518598	2592.99	4.89	5.76	6.49	6.51	8.36
535998	2679.99	4.32	6.03	6.78	6.66	8.44
n41, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503202	2516.01	4.34	6.68	6.63	6.91	8.46
518598	2592.99	4.92	6.80	6.81	7.18	8.65
534000	2670.00	4.43	6.73	6.79	7.29	8.43
n41, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504204	2521.02	4.57	5.45	5.53	5.70	8.34
518598	2592.99	4.94	6.46	6.96	7.35	8.48
532998	2664.99	5.12	6.39	6.82	7.24	8.60
n41, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505200	2526.00	4.66	6.99	7.05	7.44	8.59
518598	2592.99	4.83	6.68	6.70	7.10	8.76
531996	2659.98	4.90	6.67	6.68	7.10	8.51
n41, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
507204	2536.02	6.28	7.24	7.22	7.67	8.38
518598	2592.99	6.83	7.03	6.99	7.50	8.67
529998	2649.99	5.55	6.71	6.70	7.21	8.58

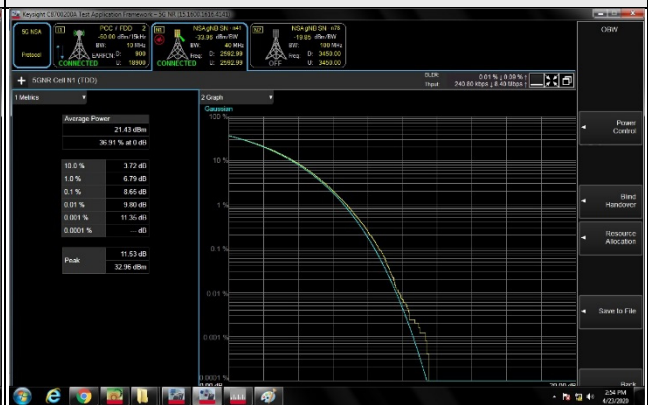
n41, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
508200	2541.00	5.01	7.25	7.35	7.60	8.40
518598	2592.99	4.86	7.07	7.07	7.38	8.55
528996	2644.98	4.93	6.66	6.68	7.15	8.41
n41, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
509202	2546.01	4.34	5.69	6.24	6.38	8.26
518598	2592.99	5.49	6.82	6.85	7.23	8.49
528000	2640.00	5.58	8.04	7.93	8.05	8.65

Spectrum Plot of Worst Value

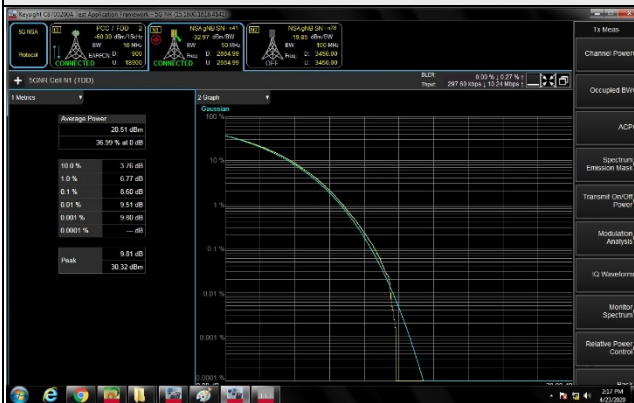
20MHz / 256QAM



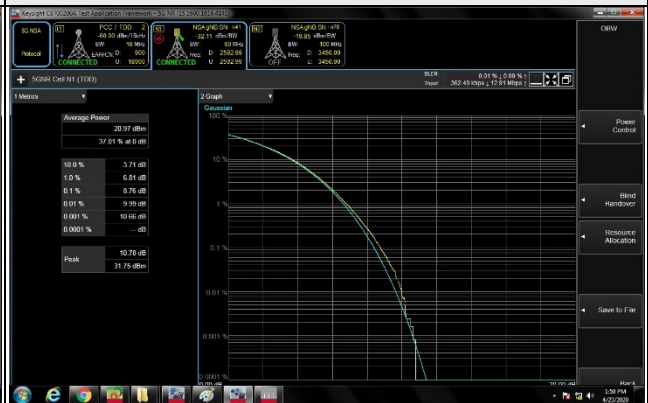
40MHz / 256QAM



50MHz / 256QAM



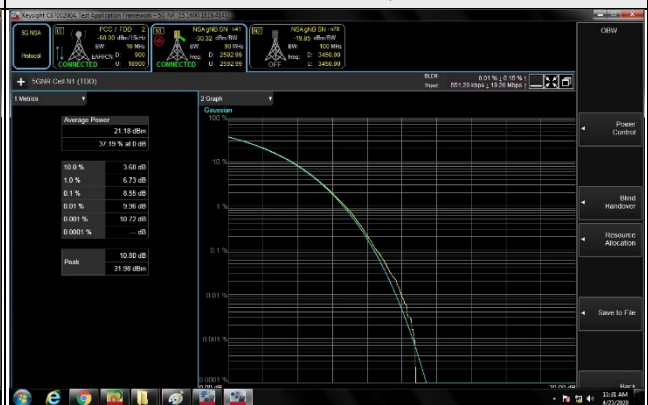
60MHz / 256QAM



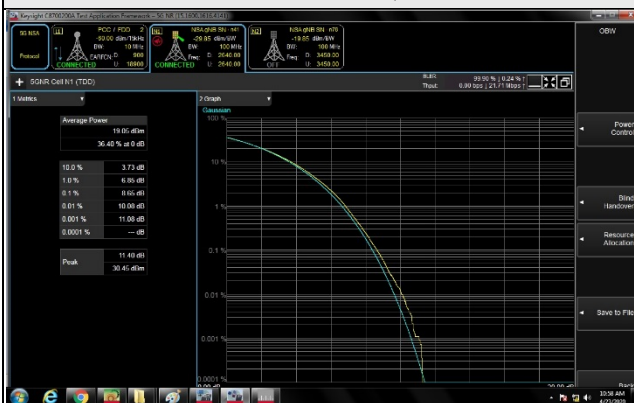
80MHz / 256QAM



90MHz / 256QAM



100MHz / 256QAM



LTE Band 2

LTE Band 2, Channel Bandwidth 1.4MHz		
Channel	Frequency (MHz)	Peak To Average Ratio (dB)
		256QAM
18607	1850.7	8.13
18900	1880.0	7.39
19193	1909.3	7.36
LTE Band 2, Channel Bandwidth 3MHz		
Channel	Frequency (MHz)	Peak To Average Ratio (dB)
		256QAM
18615	1851.5	7.92
18900	1880.0	7.22
19185	1908.5	7.56
LTE Band 2, Channel Bandwidth 5MHz		
Channel	Frequency (MHz)	Peak To Average Ratio (dB)
		256QAM
18625	1852.5	8.18
18900	1880.0	8.03
19175	1907.5	7.60
LTE Band 2, Channel Bandwidth 10MHz		
Channel	Frequency (MHz)	Peak To Average Ratio (dB)
		256QAM
18650	1855.0	8.73
18900	1880.0	8.51
19150	1905.0	7.69
LTE Band 2, Channel Bandwidth 15MHz		
Channel	Frequency (MHz)	Peak To Average Ratio (dB)
		256QAM
18675	1857.5	8.68
18900	1880.0	7.64
19125	1902.5	7.46