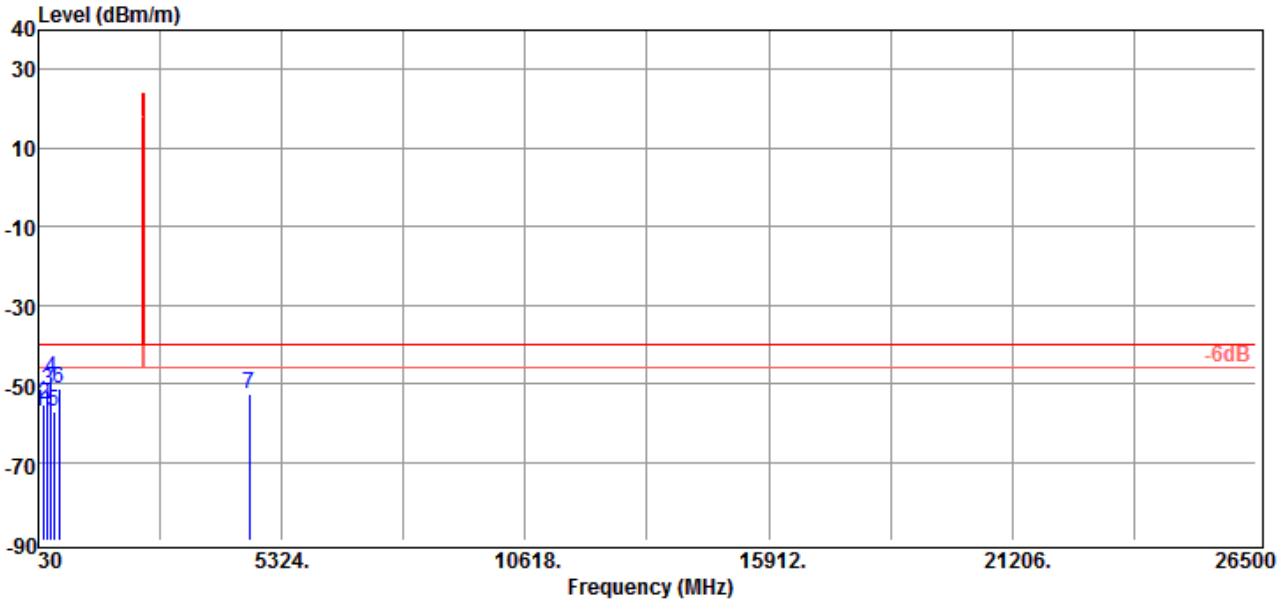
Operation Mode	:LTE B30 5M QPSK RB1,0	Test Date	:2018-11-30
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2310 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-56.95	-37.34	-19.15	-0.46	-40.00	-16.95
148.34	-55.27	-56.71	2.44	-1.00	-40.00	-15.27
228.85	-51.98	-56.05	5.43	-1.36	-40.00	-11.98
307.42	-48.80	-52.97	5.84	-1.67	-40.00	-8.80
370.47	-57.34	-61.04	5.69	-1.99	-40.00	-17.34
481.05	-51.32	-55.12	6.21	-2.41	-40.00	-11.32
4620.00	-52.72	-58.74	12.58	-6.56	-40.00	-12.72

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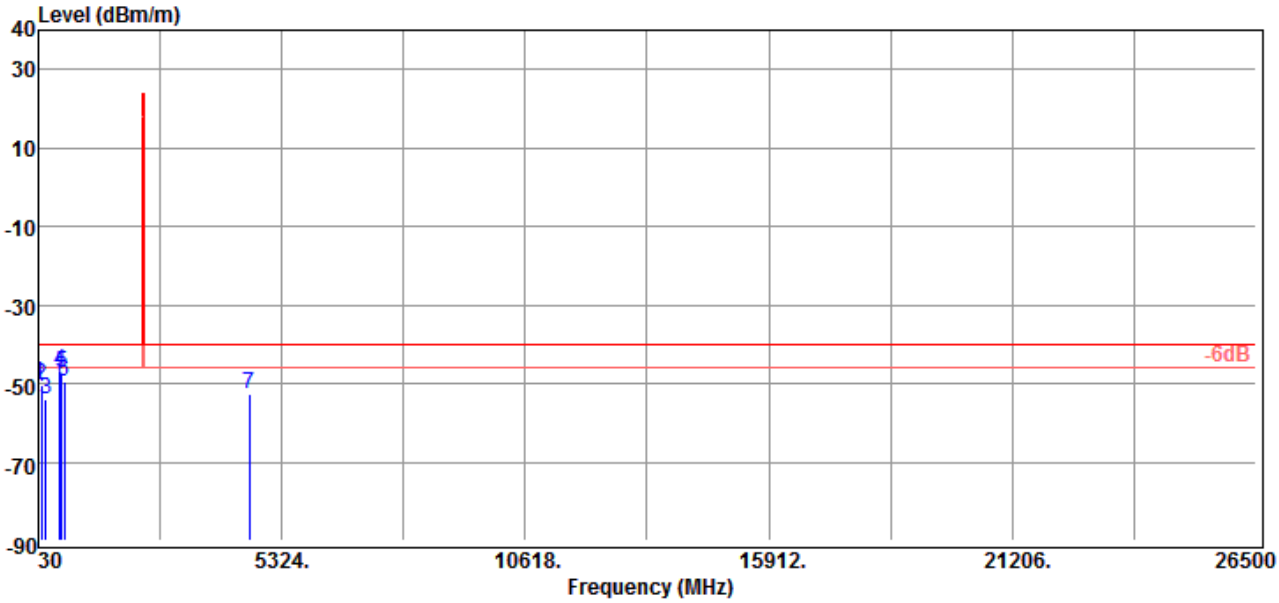
Operation Mode	:LTE B30 5M QPSK RB1,0	Test Date	:2018-11-30
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2312.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-49.82	-29.33	-20.05	-0.44	-40.00	-9.82
92.08	-50.21	-49.19	-0.20	-0.82	-40.00	-10.21
185.20	-53.91	-57.69	4.95	-1.17	-40.00	-13.91
496.57	-46.81	-50.51	6.28	-2.58	-40.00	-6.81
530.52	-47.49	-51.28	6.25	-2.46	-40.00	-7.49
589.69	-49.69	-54.10	6.58	-2.17	-40.00	-9.69
4625.00	-52.59	-58.60	12.57	-6.56	-40.00	-12.59

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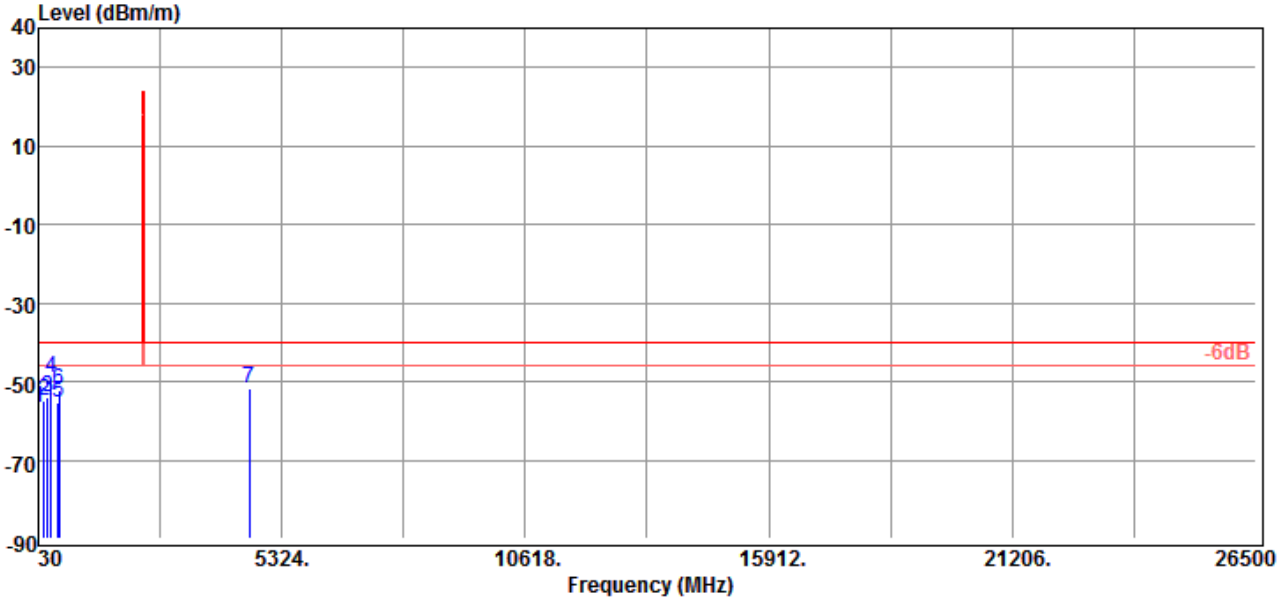
Operation Mode	:LTE B30 5M QPSK RB1,0	Test Date	:2018-11-30
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2312.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-56.87	-38.11	-18.29	-0.47	-40.00	-16.87
149.31	-55.13	-56.62	2.49	-1.00	-40.00	-15.13
230.79	-53.83	-57.88	5.41	-1.36	-40.00	-13.83
305.48	-49.09	-53.27	5.84	-1.66	-40.00	-9.09
466.50	-55.33	-59.24	6.15	-2.24	-40.00	-15.33
485.90	-52.33	-56.10	6.23	-2.46	-40.00	-12.33
4625.00	-51.90	-57.91	12.57	-6.56	-40.00	-11.90

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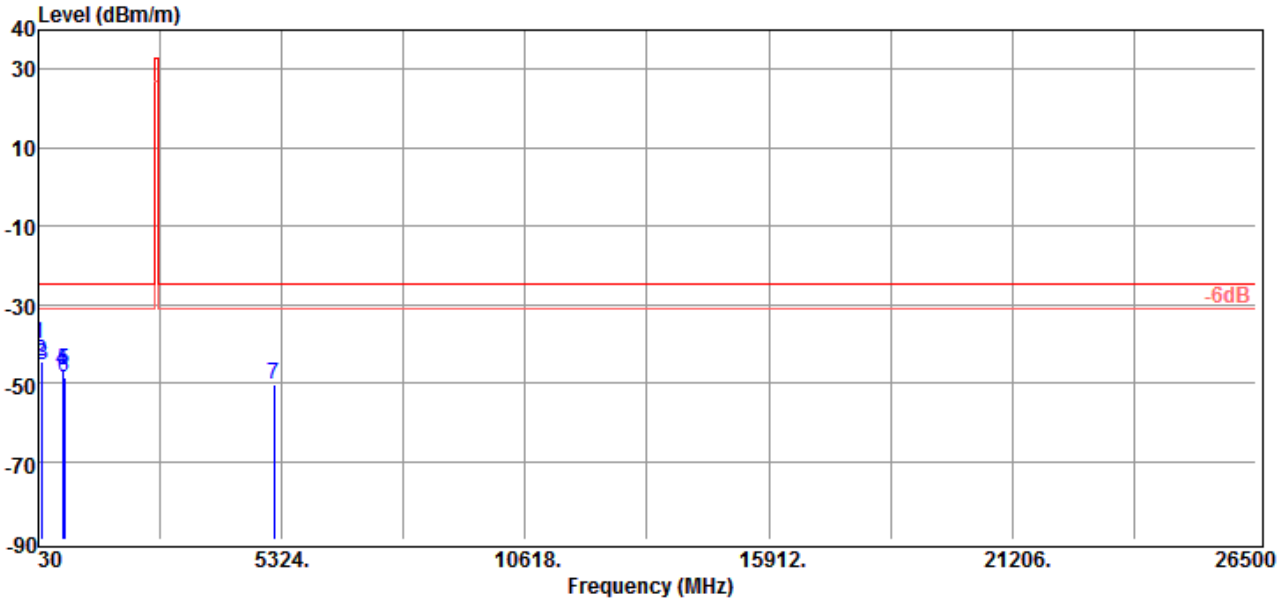
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2580 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-39.94	-22.81	-16.63	-0.50	-25.00	-14.94
95.96	-44.73	-43.34	-0.55	-0.84	-25.00	-19.73
110.51	-45.60	-44.66	-0.05	-0.89	-25.00	-20.60
556.71	-46.71	-50.67	6.28	-2.32	-25.00	-21.71
581.93	-46.95	-51.26	6.51	-2.20	-25.00	-21.95
587.75	-48.84	-53.22	6.56	-2.18	-25.00	-23.84
5160.00	-50.46	-56.46	12.67	-6.67	-25.00	-25.46

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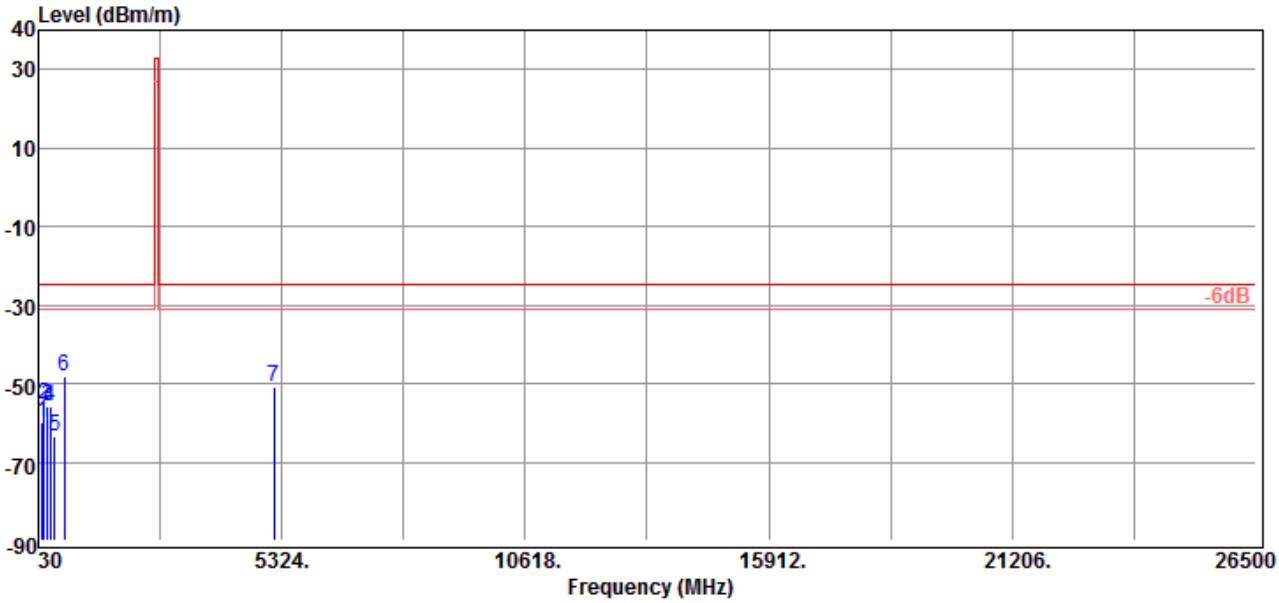
Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2580 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-59.78	-58.91	0.03	-0.90	-25.00	-34.78
159.98	-55.15	-57.37	3.27	-1.05	-25.00	-30.15
230.79	-55.62	-59.67	5.41	-1.36	-25.00	-30.62
282.20	-56.00	-60.06	5.62	-1.56	-25.00	-31.00
378.23	-63.61	-67.26	5.65	-2.00	-25.00	-38.61
595.51	-48.35	-52.84	6.63	-2.14	-25.00	-23.35
5160.00	-50.88	-56.88	12.67	-6.67	-25.00	-25.88

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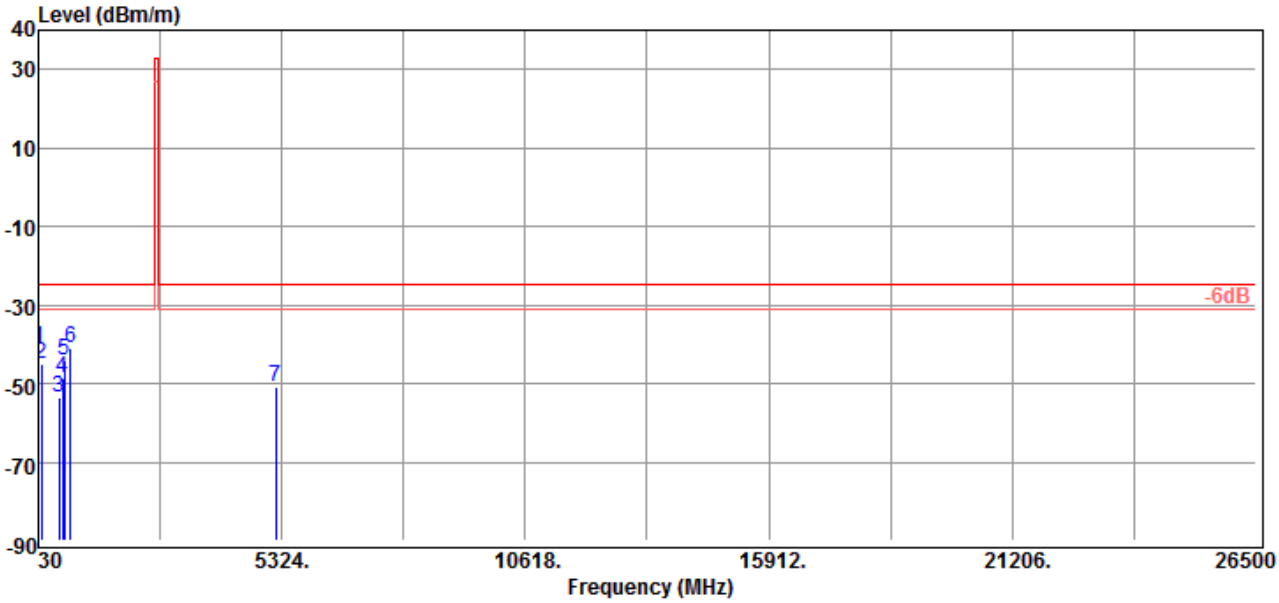
Member of SGS Group

Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-40.92	-25.33	-15.06	-0.53	-25.00	-15.92
94.02	-44.81	-43.61	-0.37	-0.83	-25.00	-19.81
476.20	-53.63	-57.47	6.19	-2.35	-25.00	-28.63
556.71	-48.73	-52.69	6.28	-2.32	-25.00	-23.73
601.33	-44.19	-48.74	6.68	-2.13	-25.00	-19.19
734.22	-41.15	-46.40	7.38	-2.13	-25.00	-16.15
5190.00	-50.66	-56.72	12.70	-6.64	-25.00	-25.66

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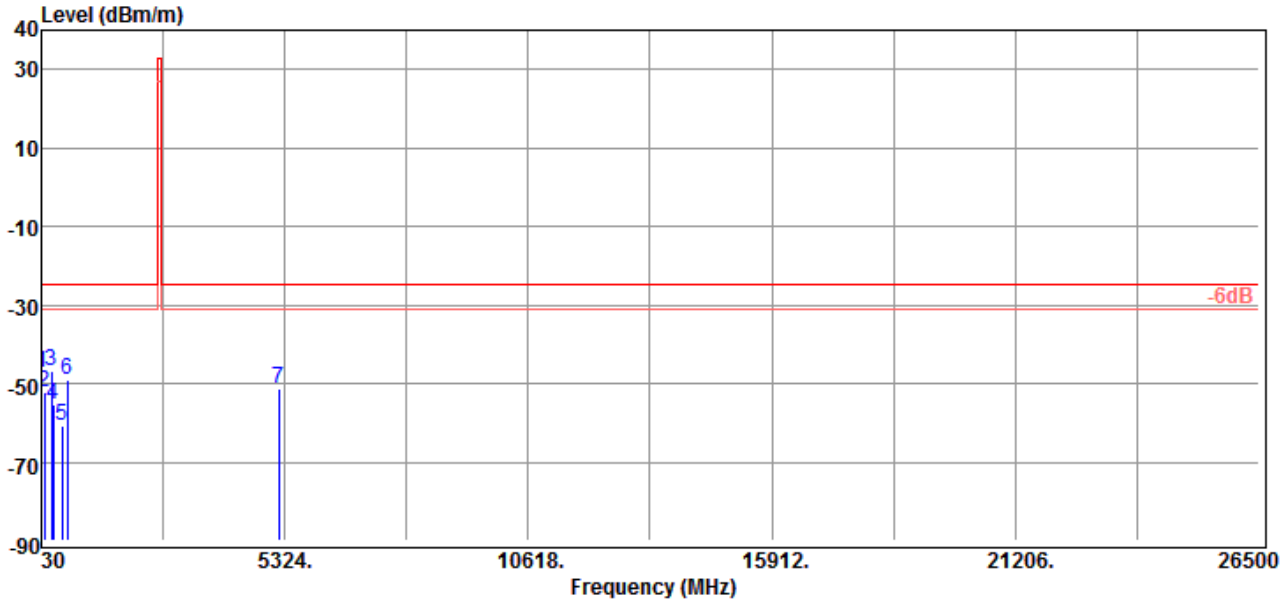
Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-47.43	-28.67	-18.29	-0.47	-25.00	-22.43
96.93	-52.42	-50.94	-0.63	-0.85	-25.00	-27.42
250.19	-46.87	-50.60	5.17	-1.44	-25.00	-21.87
282.20	-55.20	-59.26	5.62	-1.56	-25.00	-30.20
482.02	-60.60	-64.39	6.21	-2.42	-25.00	-35.60
601.33	-48.95	-53.50	6.68	-2.13	-25.00	-23.95
5190.00	-51.17	-57.23	12.70	-6.64	-25.00	-26.17

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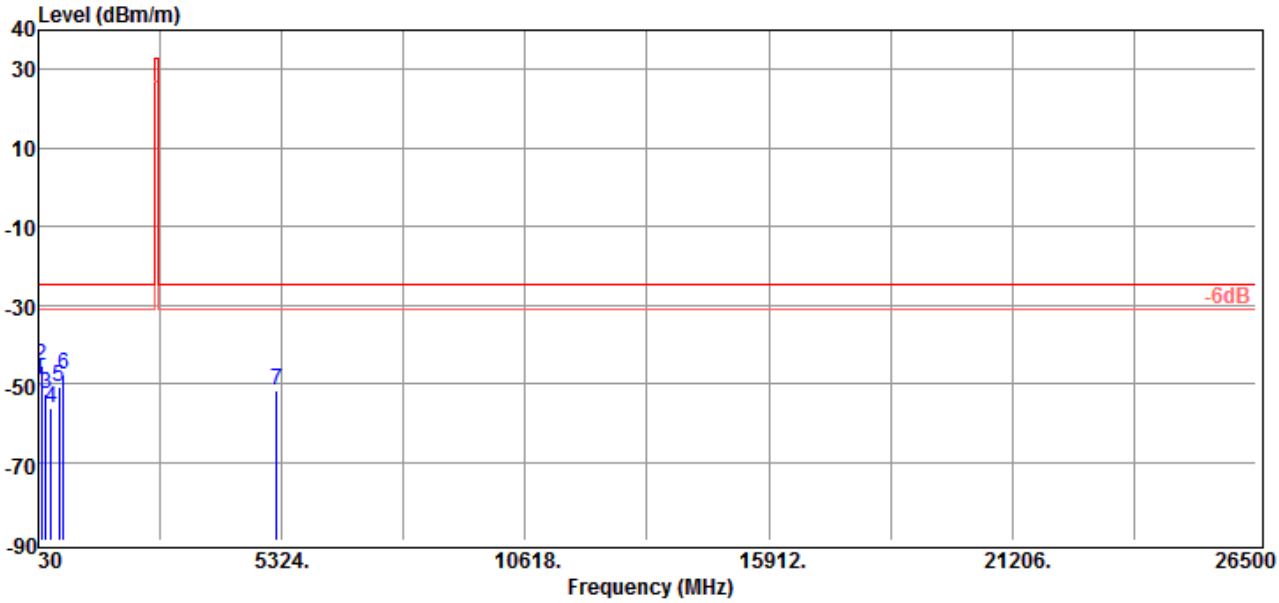
Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2610 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-49.29	-31.36	-17.44	-0.49	-25.00	-24.29
94.02	-45.27	-44.07	-0.37	-0.83	-25.00	-20.27
185.20	-52.77	-56.55	4.95	-1.17	-25.00	-27.77
306.45	-56.20	-60.38	5.84	-1.66	-25.00	-31.20
485.90	-50.97	-54.74	6.23	-2.46	-25.00	-25.97
568.35	-47.70	-51.82	6.39	-2.27	-25.00	-22.70
5220.00	-51.65	-57.77	12.73	-6.61	-25.00	-26.65

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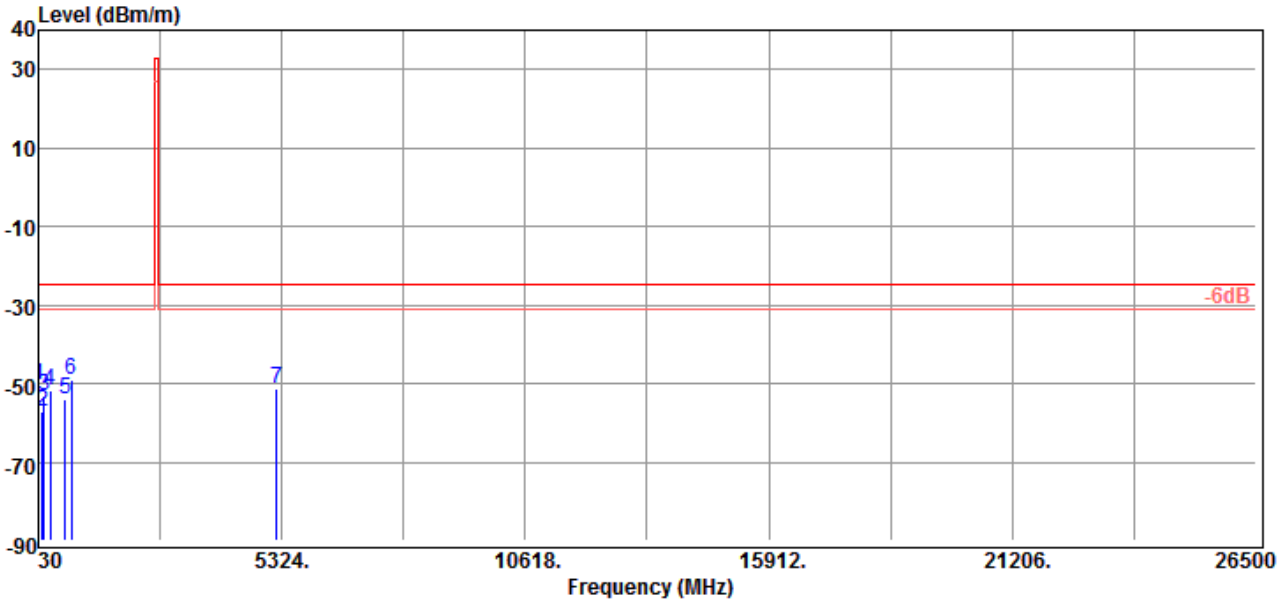
Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2610 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.35	-32.42	-17.44	-0.49	-25.00	-25.35
110.51	-57.19	-56.25	-0.05	-0.89	-25.00	-32.19
159.98	-53.28	-55.50	3.27	-1.05	-25.00	-28.28
283.17	-51.63	-55.70	5.63	-1.56	-25.00	-26.63
607.15	-53.90	-58.42	6.70	-2.18	-25.00	-28.90
741.98	-48.90	-54.20	7.39	-2.09	-25.00	-23.90
5220.00	-51.26	-57.38	12.73	-6.61	-25.00	-26.26

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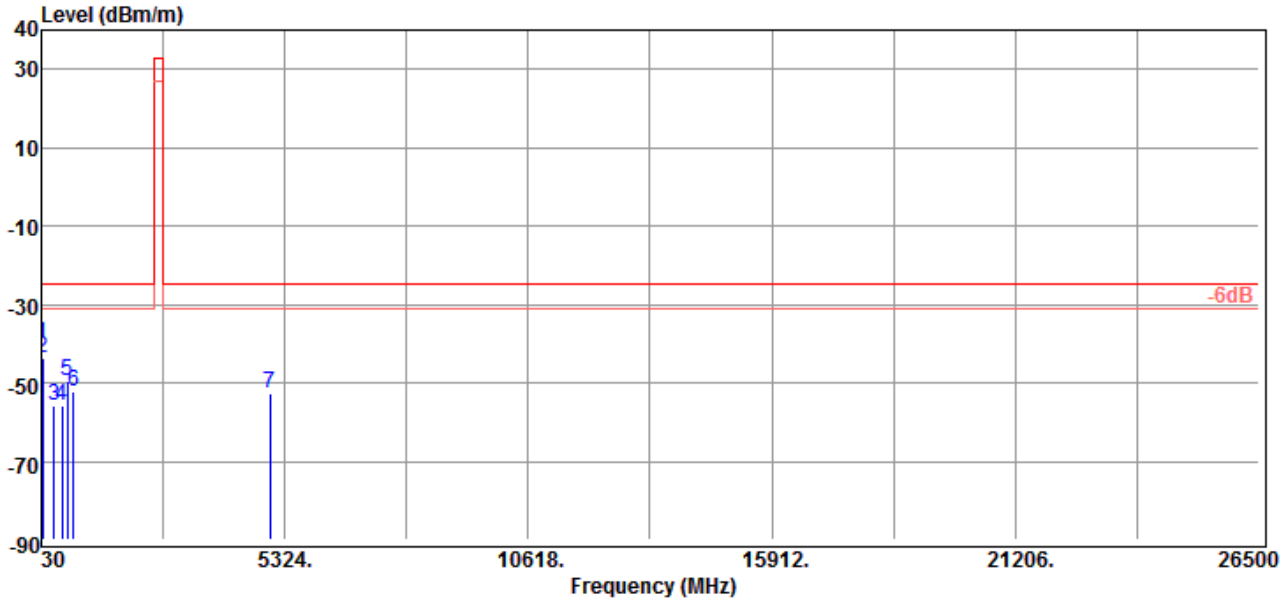
Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Operation Mode	:LTE B41 10M 16QAM RB25,12	Test Date	:2018-11-30
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2501 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-39.95	-24.36	-15.06	-0.53	-25.00	-14.95
64.92	-43.55	-42.72	-0.14	-0.69	-25.00	-18.55
302.57	-55.59	-59.80	5.85	-1.64	-25.00	-30.59
477.17	-55.76	-59.59	6.19	-2.36	-25.00	-30.76
587.75	-49.44	-53.82	6.56	-2.18	-25.00	-24.44
730.34	-52.36	-57.59	7.37	-2.14	-25.00	-27.36
5002.00	-52.53	-58.20	12.50	-6.83	-25.00	-27.53

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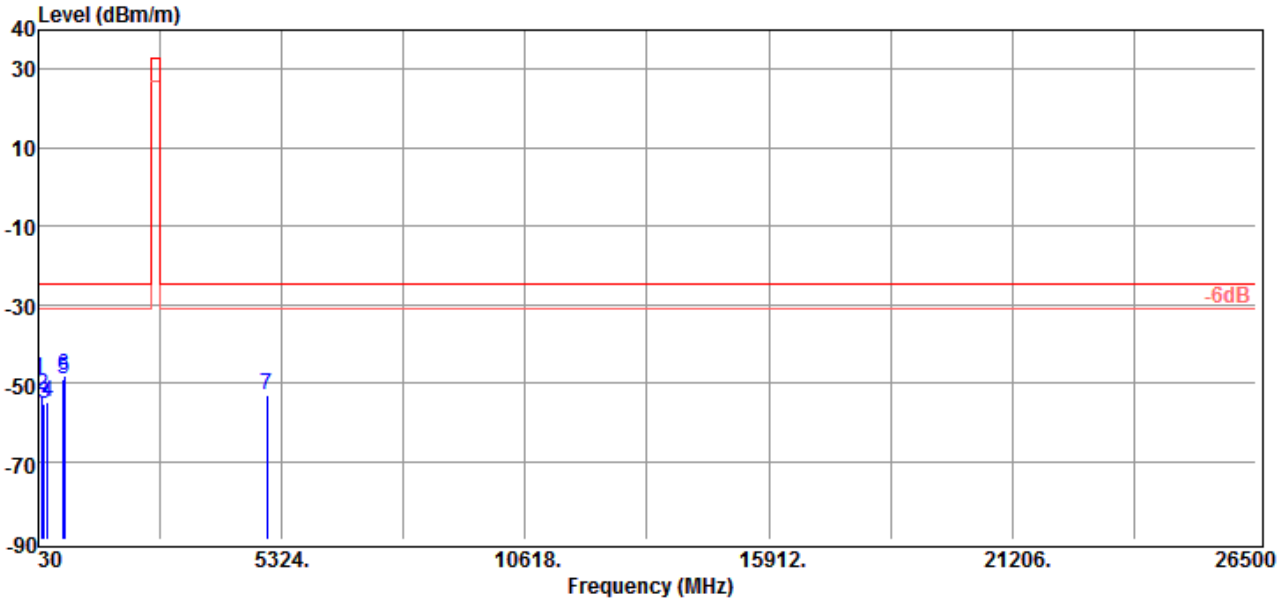
Operation Mode	:LTE B41 10M 16QAM RB25,12	Test Date	:2018-11-30
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2501 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-49.27	-31.34	-17.44	-0.49	-25.00	-24.27
110.51	-53.28	-52.34	-0.05	-0.89	-25.00	-28.28
159.98	-55.53	-57.75	3.27	-1.05	-25.00	-30.53
231.76	-54.89	-58.91	5.39	-1.37	-25.00	-29.89
580.96	-49.24	-53.53	6.50	-2.21	-25.00	-24.24
591.63	-48.18	-52.62	6.60	-2.16	-25.00	-23.18
5002.00	-53.05	-58.72	12.50	-6.83	-25.00	-28.05

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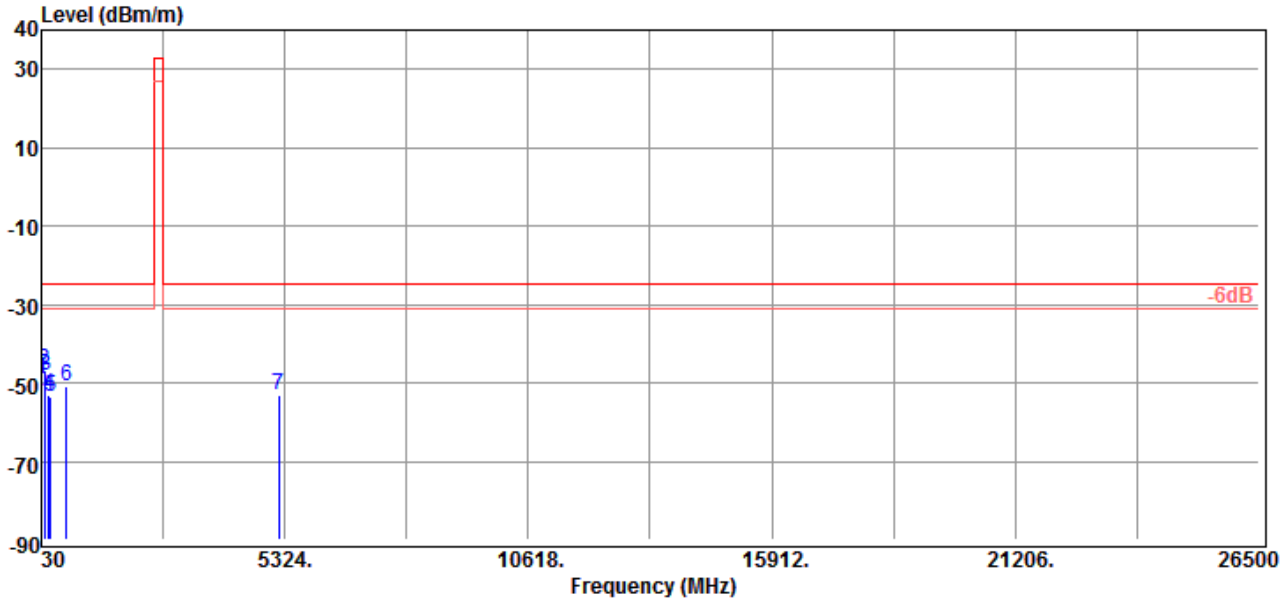
Operation Mode	:LTE B41 10M 16QAM RB25,12	Test Date	:2018-11-30
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2593 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-48.90	-30.14	-18.29	-0.47	-25.00	-23.90
96.93	-46.84	-45.36	-0.63	-0.85	-25.00	-21.84
110.51	-48.10	-47.16	-0.05	-0.89	-25.00	-23.10
185.20	-53.15	-56.93	4.95	-1.17	-25.00	-28.15
229.82	-53.55	-57.61	5.42	-1.36	-25.00	-28.55
569.32	-50.68	-54.82	6.40	-2.26	-25.00	-25.68
5186.00	-52.90	-58.95	12.69	-6.64	-25.00	-27.90

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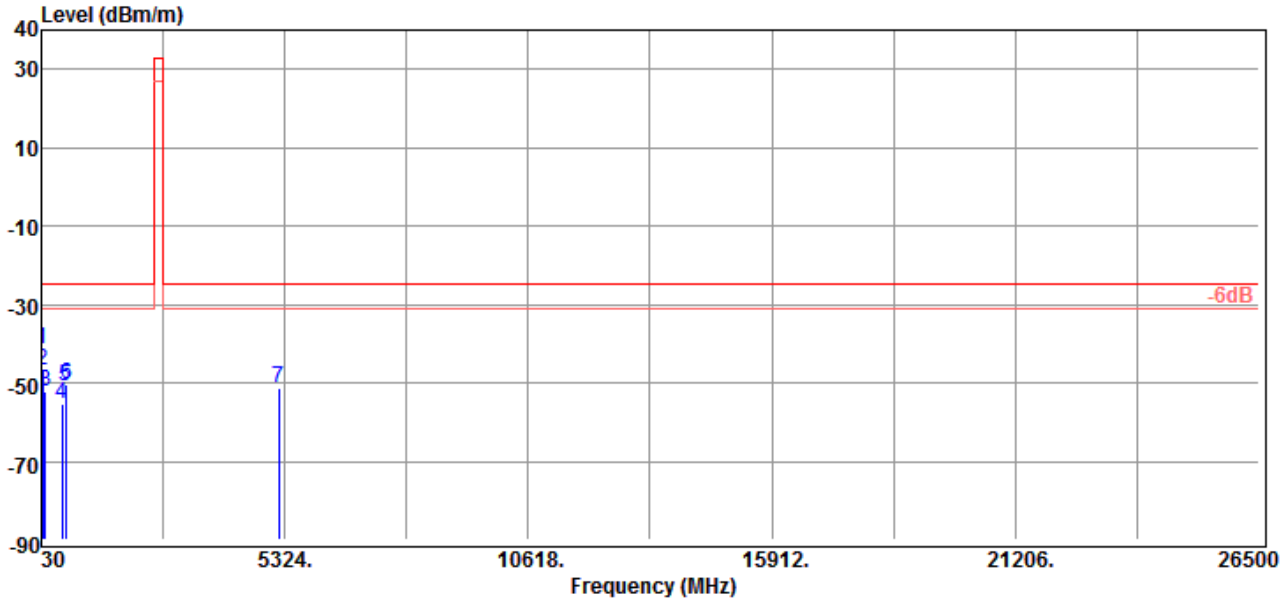
Operation Mode	:LTE B41 10M 16QAM RB25,12	Test Date	:2018-11-30
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2593 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-41.25	-23.32	-17.44	-0.49	-25.00	-16.25
62.98	-46.63	-45.55	-0.41	-0.67	-25.00	-21.63
110.51	-52.27	-51.33	-0.05	-0.89	-25.00	-27.27
483.96	-55.51	-59.29	6.22	-2.44	-25.00	-30.51
553.80	-50.71	-54.64	6.26	-2.33	-25.00	-25.71
579.02	-50.47	-54.74	6.49	-2.22	-25.00	-25.47
5186.00	-51.42	-57.47	12.69	-6.64	-25.00	-26.42

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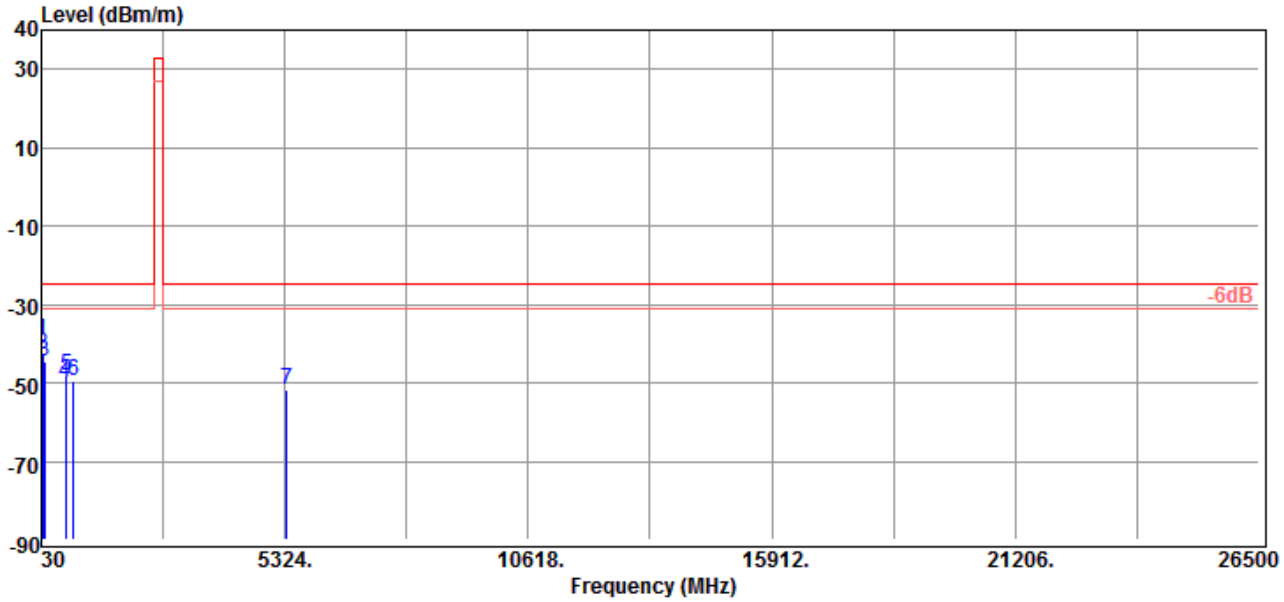
Operation Mode	:LTE B41 10M 16QAM RB25,12	Test Date	:2018-11-30
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2685 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-39.18	-22.83	-15.83	-0.52	-25.00	-14.18
64.92	-42.60	-41.77	-0.14	-0.69	-25.00	-17.60
96.93	-44.39	-42.91	-0.63	-0.85	-25.00	-19.39
550.89	-49.79	-53.67	6.23	-2.35	-25.00	-24.79
579.02	-48.33	-52.60	6.49	-2.22	-25.00	-23.33
737.13	-49.66	-54.93	7.38	-2.11	-25.00	-24.66
5370.00	-51.92	-58.33	12.87	-6.46	-25.00	-26.92

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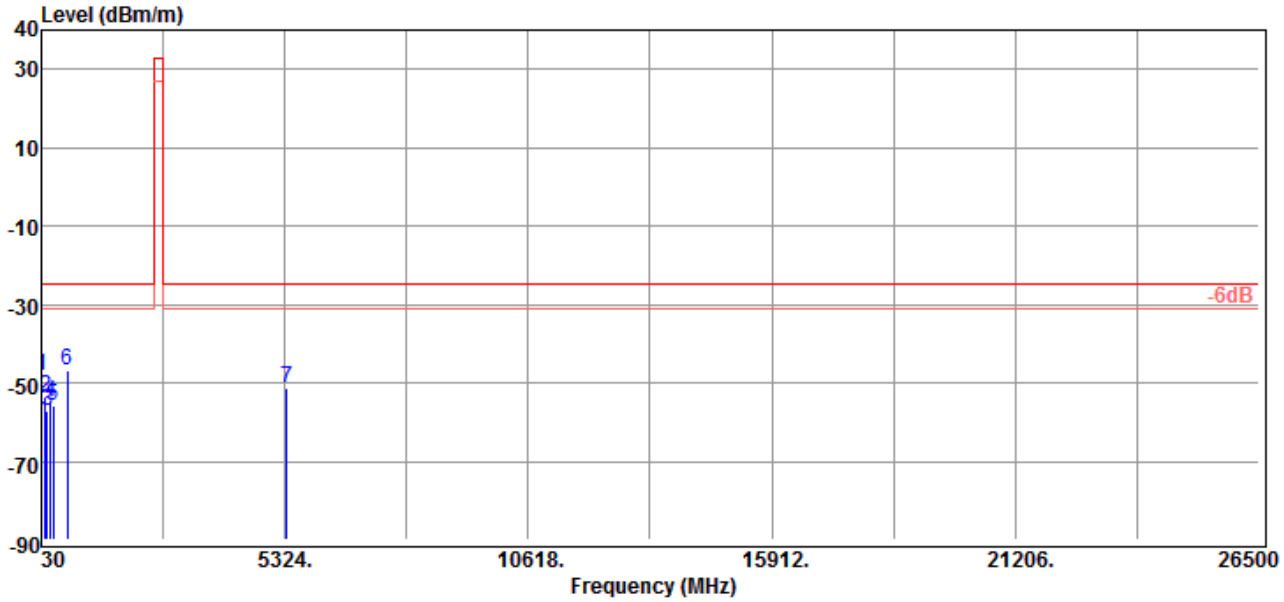
Operation Mode	:LTE B41 10M 16QAM RB25,12	Test Date	:2018-11-30
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2685 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-47.96	-30.83	-16.63	-0.50	-25.00	-22.96
110.51	-53.51	-52.57	-0.05	-0.89	-25.00	-28.51
161.92	-57.29	-59.64	3.41	-1.06	-25.00	-32.29
227.88	-54.88	-58.97	5.44	-1.35	-25.00	-29.88
293.84	-55.69	-59.86	5.77	-1.60	-25.00	-30.69
599.39	-46.94	-51.48	6.66	-2.12	-25.00	-21.94
5370.00	-51.29	-57.70	12.87	-6.46	-25.00	-26.29

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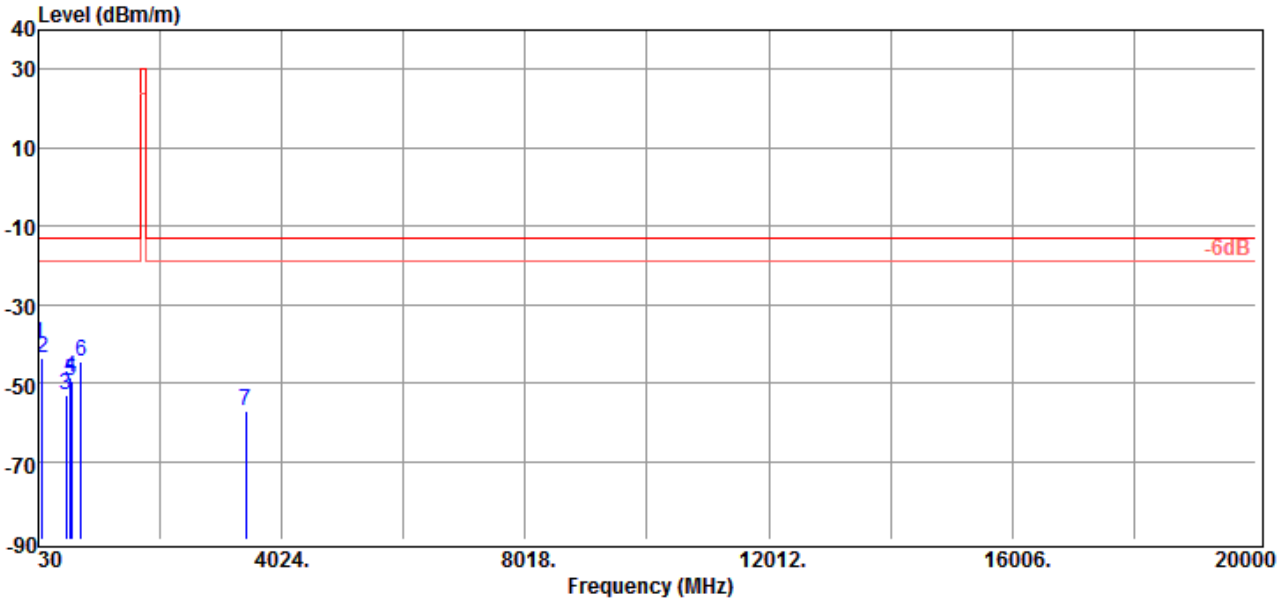
Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-11-30
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-40.01	-21.25	-18.29	-0.47	-13.00	-27.01
96.93	-43.66	-42.18	-0.63	-0.85	-13.00	-30.66
483.96	-53.12	-56.90	6.22	-2.44	-13.00	-40.12
557.68	-48.70	-52.68	6.29	-2.31	-13.00	-35.70
571.26	-49.40	-53.57	6.42	-2.25	-13.00	-36.40
730.34	-44.50	-49.73	7.37	-2.14	-13.00	-31.50
3440.00	-56.96	-62.43	12.19	-6.72	-13.00	-43.96

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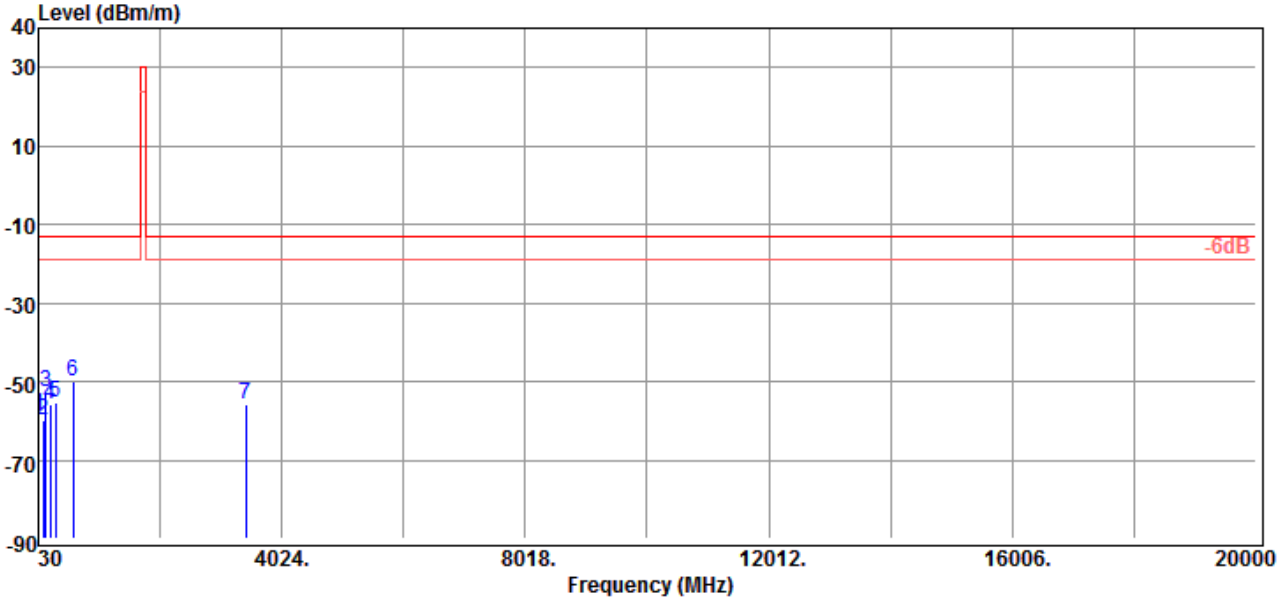
Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-11-30
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-58.38	-38.77	-19.15	-0.46	-13.00	-45.38
110.51	-59.85	-58.91	-0.05	-0.89	-13.00	-46.85
159.98	-52.70	-54.92	3.27	-1.05	-13.00	-39.70
224.97	-55.72	-59.86	5.48	-1.34	-13.00	-42.72
311.30	-55.39	-59.54	5.84	-1.69	-13.00	-42.39
602.30	-49.88	-54.42	6.68	-2.14	-13.00	-36.88
3440.00	-55.88	-61.35	12.19	-6.72	-13.00	-42.88

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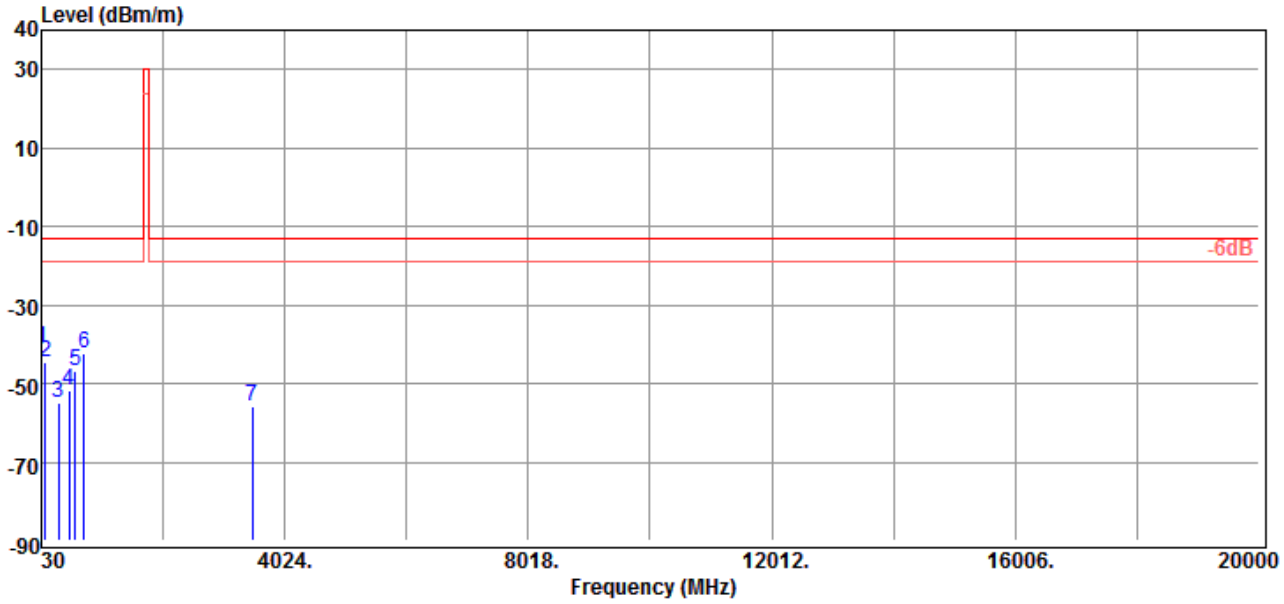
Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-11-30
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-40.92	-22.99	-17.44	-0.49	-13.00	-27.92
94.99	-44.67	-43.37	-0.46	-0.84	-13.00	-31.67
306.45	-54.77	-58.95	5.84	-1.66	-13.00	-41.77
480.08	-51.88	-55.69	6.21	-2.40	-13.00	-38.88
584.84	-47.01	-51.36	6.54	-2.19	-13.00	-34.01
736.16	-42.30	-47.56	7.38	-2.12	-13.00	-29.30
3490.00	-55.87	-61.19	12.28	-6.96	-13.00	-42.87

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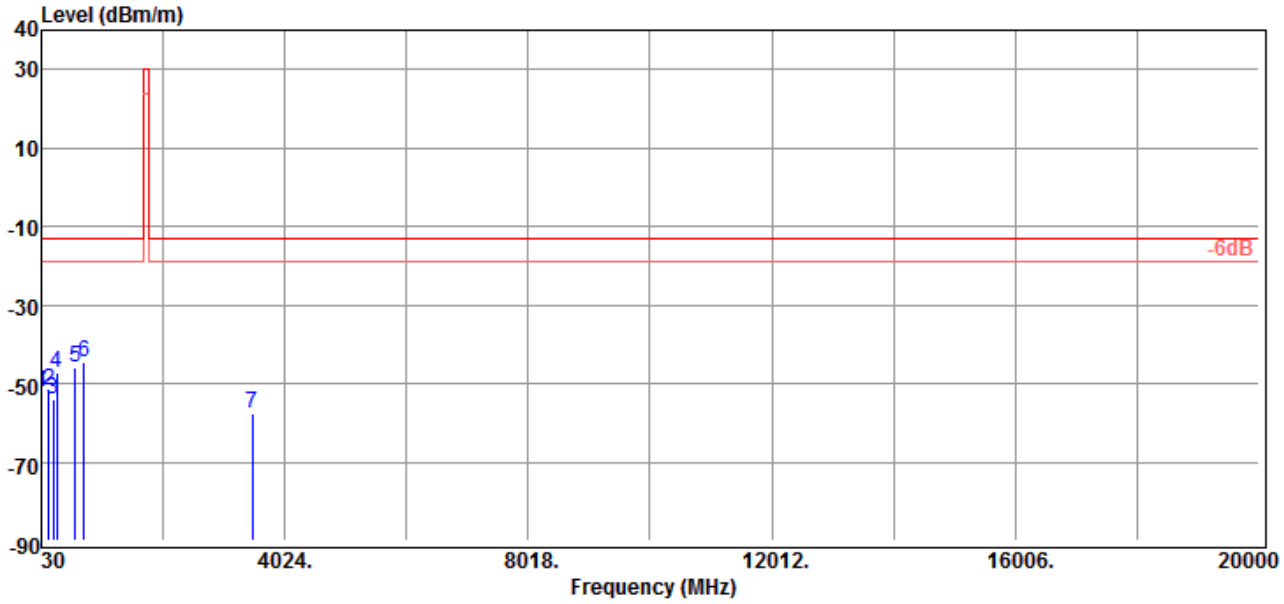
Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-11-30
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-52.23	-38.10	-13.57	-0.56	-13.00	-39.23
159.98	-51.79	-54.01	3.27	-1.05	-13.00	-38.79
225.94	-54.02	-58.15	5.47	-1.34	-13.00	-41.02
282.20	-47.30	-51.36	5.62	-1.56	-13.00	-34.30
582.90	-46.06	-50.38	6.52	-2.20	-13.00	-33.06
731.31	-44.35	-49.58	7.37	-2.14	-13.00	-31.35
3490.00	-57.40	-62.72	12.28	-6.96	-13.00	-44.40

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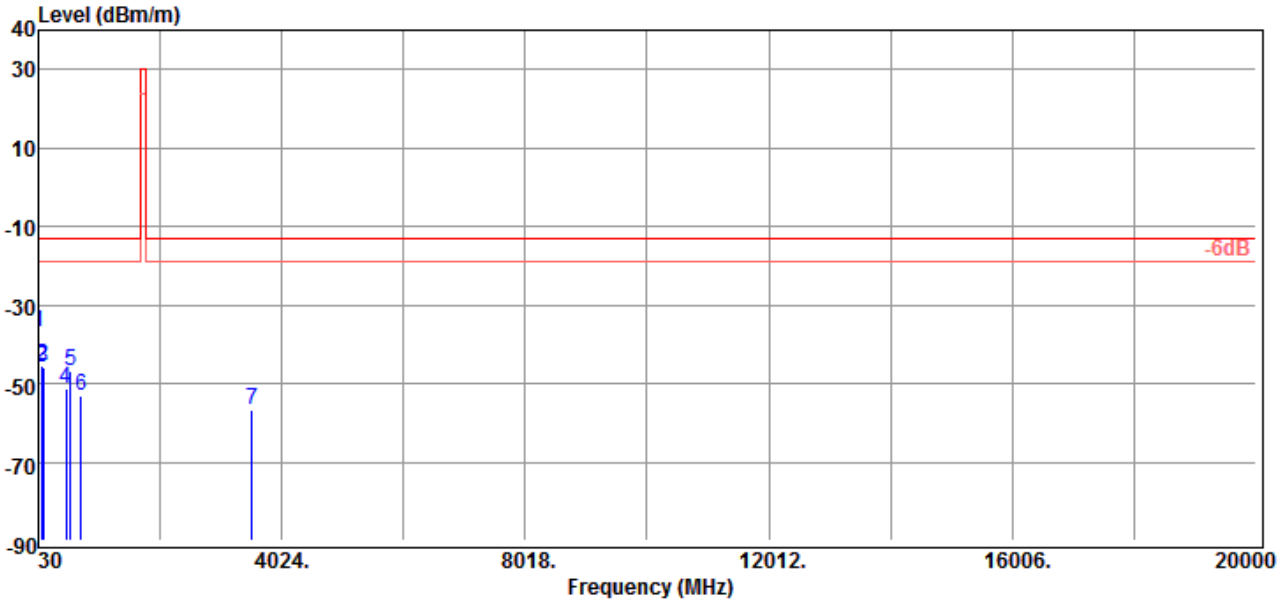
Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-11-30
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1770 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-36.98	-19.85	-16.63	-0.50	-13.00	-23.98
94.02	-45.37	-44.17	-0.37	-0.83	-13.00	-32.37
109.54	-45.82	-44.81	-0.12	-0.89	-13.00	-32.82
483.96	-51.17	-54.95	6.22	-2.44	-13.00	-38.17
552.83	-47.00	-50.91	6.25	-2.34	-13.00	-34.00
730.34	-53.01	-58.24	7.37	-2.14	-13.00	-40.01
3540.00	-56.52	-61.89	12.33	-6.96	-13.00	-43.52

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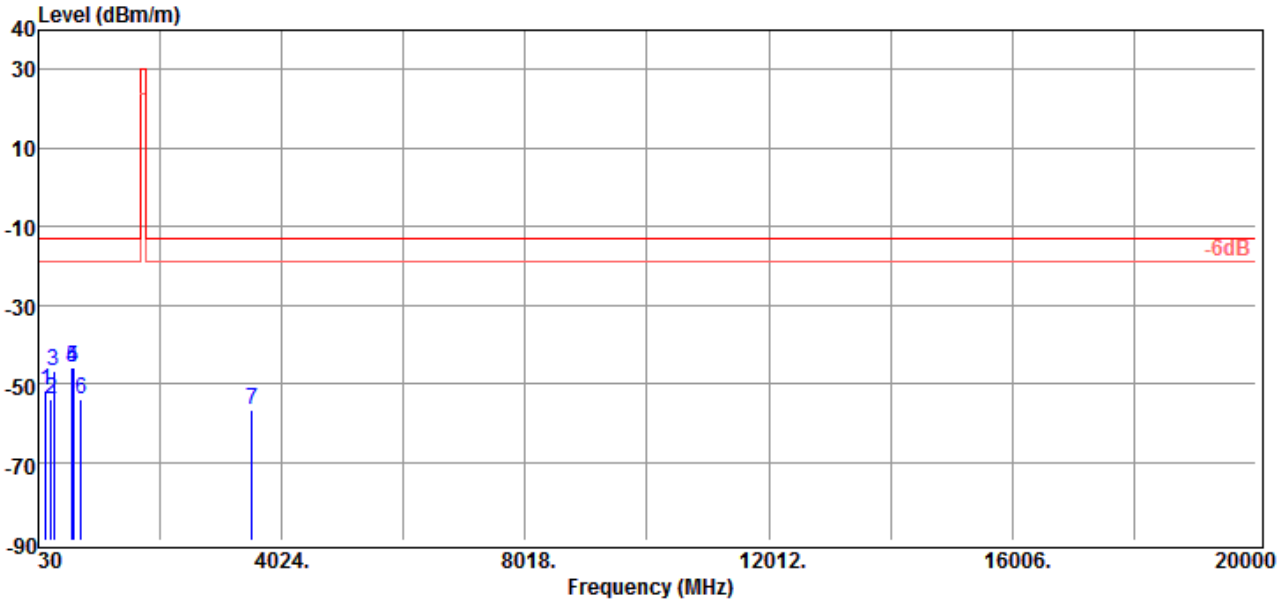
Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-11-30
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1770 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
159.01	-51.96	-54.12	3.20	-1.04	-13.00	-38.96
234.67	-53.93	-57.91	5.36	-1.38	-13.00	-40.93
282.20	-46.97	-51.03	5.62	-1.56	-13.00	-33.97
586.78	-46.05	-50.42	6.55	-2.18	-13.00	-33.05
597.45	-45.90	-50.42	6.65	-2.13	-13.00	-32.90
733.25	-54.21	-59.46	7.38	-2.13	-13.00	-41.21
3540.00	-56.92	-62.29	12.33	-6.96	-13.00	-43.92

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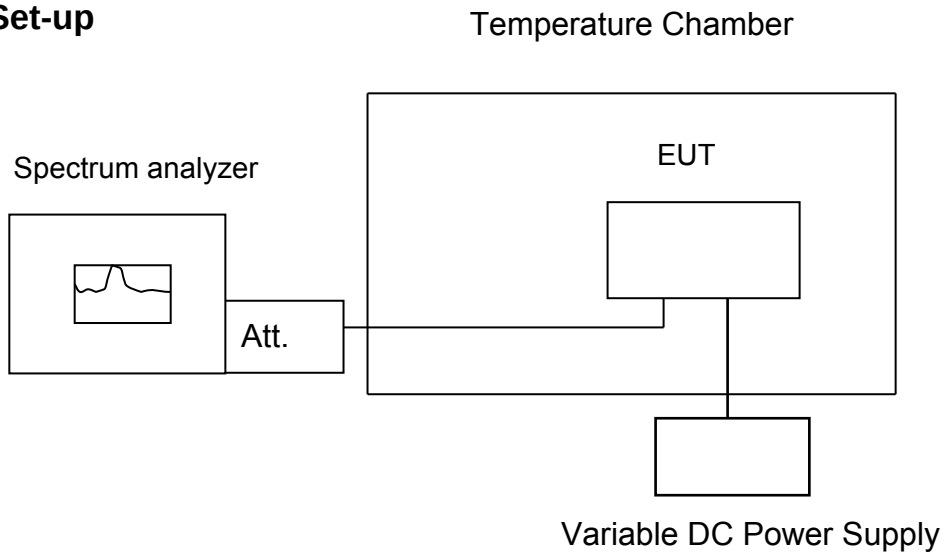
10. FREQUENCY STABILITY MEASUREMENT

10.1. Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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10.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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10.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14

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10.5. Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
17.71	20	1879.999995	-5.000000101	4700
15.4	20	1880.000008	7.99999998	4700
13.09	20	1880	0	4700
11.4V (End point)	20	1879.999996	-3.99999999	4700
FREQUENCY ERROR vs. Temp.				
15.4	50	1879.999992	-7.99999998	4700
15.4	40	1879.999997	-3.000000106	4700
15.4	30	1880	0	4700
15.4	20	1880.000003	3.000000106	4700
15.4	10	1880.000009	9.000000091	4700
15.4	0	1879.999995	-5.000000101	4700
15.4	-10	1880.000002	1.999999995	4700
15.4	-20	1880.000007	7.000000096	4700
15.4	-30	1880.000001	1.000000111	4700

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WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
17.71	20	1732.600002	1.999999995	4331
15.4	20	1732.599991	-8.999999864	4331
13.09	20	1732.599989	-10.99999986	4331
11.4V (End point)	20	1732.599997	-2.999999879	4331
FREQUENCY ERROR vs. Temp.				
15.4	50	1732.599991	-8.999999864	4331
15.4	40	1732.600003	3.000000106	4331
15.4	30	1732.599996	-3.99999999	4331
15.4	20	1732.6	0	4331
15.4	10	1732.599988	-11.99999997	4331
15.4	0	1732.599999	-0.999999884	4331
15.4	-10	1732.600005	5.000000101	4331
15.4	-20	1732.599992	-7.99999998	4331
15.4	-30	1732.599989	-10.99999986	4331

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WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
17.71	20	836.600006	5.999999985	2091
15.4	20	836.600001	0.999999997	2091
13.09	20	836.600004	3.99999999	2091
11.4V (End point)	20	836.600001	0.999999997	2091
FREQUENCY ERROR vs. Temp.				
15.4	50	836.599997	-2.999999992	2091
15.4	40	836.600002	1.999999995	2091
15.4	30	836.600005	4.999999987	2091
15.4	20	836.599997	-2.999999992	2091
15.4	10	836.600002	1.999999995	2091
15.4	0	836.6	0	2091
15.4	-10	836.599991	-8.999999977	2091
15.4	-20	836.600001	0.999999997	2091
15.4	-30	836.600004	3.99999999	2091

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Reference Freq.:	LTE B2 Mid Channel	1880	MHz 20M QPSK CH 18900	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	1880.000000	0	4700
15.4	25	1880.000005	5.0000001	4700
13.09	25	1879.999996	-4	4700
11.4 (End Point)	25	1879.999992	-8	4700
Freq. ERROR vs. Temp.				
15.4	-30	1880.000001	1.0000001	4700
15.4	-20	1880.000008	8	4700
15.4	-10	1880.000000	0	4700
15.4	0	1880.000008	8	4700
15.4	10	1880.000005	5.0000001	4700
15.4	20	1879.999998	-2	4700
15.4	30	1880.000000	0	4700
15.4	40	1879.999992	-8	4700
15.4	50	1880.000008	8	4700

Reference Freq.:	LTE B4 Mid Channel	1732.5	MHz 20M QPSK CH 20175	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	1732.499999	-1	4331
15.4	25	1732.499999	-1	4331
13.09	25	1732.500005	5.0000001	4331
11.4 (End Point)	25	1732.499995	-5	4331
Freq. ERROR vs. Temp.				
15.4	-30	1732.499998	-2	4331
15.4	-20	1732.499993	-7	4331
15.4	-10	1732.500001	1.0000001	4331
15.4	0	1732.500006	6	4331
15.4	10	1732.500002	2	4331
15.4	20	1732.500004	4	4331
15.4	30	1732.500005	5.0000001	4331
15.4	40	1732.499999	-1	4331
15.4	50	1732.500003	3.0000001	4331

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Reference Freq.:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	836.500004	4	2091
15.4	25	836.499995	-5	2091
13.09	25	836.499998	-2	2091
11.4 (End Point)	25	836.499991	-9	2091
Freq. ERROR vs. Temp.				
15.4	-30	836.499992	-8	2091
15.4	-20	836.499998	-2	2091
15.4	-10	836.499996	-4	2091
15.4	0	836.499991	-9	2091
15.4	10	836.499997	-3	2091
15.4	20	836.500004	4	2091
15.4	30	836.499990	-10	2091
15.4	40	836.500002	2	2091
15.4	50	836.499998	-2	2091

Reference Freq.:	LTE B7 Mid Channel	2535	MHz 10M QPSK CH 21100	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	2534.999995	-5	6338
15.4	25	2535.000008	8	6338
13.09	25	2534.999994	-6	6338
11.4 (End Point)	25	2535.000007	7.0000001	6338
Freq. ERROR vs. Temp.				
15.4	-30	2534.999998	-2	6338
15.4	-20	2535.000004	4	6338
15.4	-10	2535.000004	4	6338
15.4	0	2534.999990	-10	6338
15.4	10	2534.999998	-2	6338
15.4	20	2534.999995	-5	6338
15.4	30	2534.999994	-6	6338
15.4	40	2534.999993	-7	6338
15.4	50	2535.000007	7.0000001	6338

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Reference Freq.:	LTE B12 Mid Channel	707.5	MHz 10M QPSK CH 23095	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	707.500006	6	1769
15.4	25	707.499990	-10	1769
13.09	25	707.500001	1	1769
11.4 (End Point)	25	707.500001	1	1769
Freq. ERROR vs. Temp.				
15.4	-30	707.500005	5	1769
15.4	-20	707.500006	6	1769
15.4	-10	707.499992	-8	1769
15.4	0	707.500006	6	1769
15.4	10	707.500009	9	1769
15.4	20	707.499992	-8	1769
15.4	30	707.499994	-6	1769
15.4	40	707.500000	0	1769
15.4	50	707.500008	8	1769

Reference Freq.:	LTE B13 Mid Channel	782	MHz 10M QPSK CH 23230	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	781.999992	-8	1955
15.4	25	782.000008	8	1955
13.09	25	781.999999	-1	1955
11.4 (End Point)	25	781.999999	-1	1955
Freq. ERROR vs. Temp.				
15.4	-30	782.000004	4	1955
15.4	-20	782.000002	2	1955
15.4	-10	781.999992	-8	1955
15.4	0	782.000000	0	1955
15.4	10	782.000004	4	1955
15.4	20	782.000001	1	1955
15.4	30	782.000002	2	1955
15.4	40	781.999998	-2	1955
15.4	50	781.999996	-4	1955

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Reference Freq.:	LTE B14 Mid Channel	793	MHz 10M QPSK CH 23330	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 1.25 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	793.000007	7	1983
15.4	25	793.000001	1	1983
13.09	25	792.999999	-1	1983
11.4 (End Point)	25	793.000005	5	1983
Freq. ERROR vs. Temp.				
15.4	-30	793.000002	2	1983
15.4	-20	792.999990	-10	1983
15.4	-10	793.000007	7	1983
15.4	0	793.000005	5	1983
15.4	10	792.999993	-7	1983
15.4	20	793.000003	3	1983
15.4	30	792.999998	-2	1983
15.4	40	793.000002	2	1983
15.4	50	792.999992	-8	1983

Reference Freq.:	LTE B17 Mid Channel	710	MHz 10M QPSK CH 23790	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	709.999996	-4	1775
15.4	25	709.999997	-3	1775
13.09	25	710.000003	3	1775
11.4 (End Point)	25	710.000009	9	1775
Freq. ERROR vs. Temp.				
15.4	-30	710.000003	3	1775
15.4	-20	710.000007	7	1775
15.4	-10	709.999994	-6	1775
15.4	0	709.999997	-3	1775
15.4	10	709.999990	-10	1775
15.4	20	709.999990	-10	1775
15.4	30	709.999993	-7	1775
15.4	40	710.000005	5	1775
15.4	50	709.999995	-5	1775

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Reference Freq.:	LTE B25 Mid Channel		1882.5	MHz 20M QPSK CH 26365
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	1882.499997	-3	4700
15.4	25	1882.499999	-1	4700
13.09	25	1882.499997	-3	4700
11.4 (End Point)	25	1882.499995	-5	4700
Freq. ERROR vs. Temp.				
15.4	-30	1882.499994	-6	4700
15.4	-20	1882.500009	9.0000001	4700
15.4	-10	1882.500006	6	4700
15.4	0	1882.499993	-7	4700
15.4	10	1882.500005	5.0000001	4700
15.4	20	1882.500002	2	4700
15.4	30	1882.499997	-3	4700
15.4	40	1882.499996	-4	4700
15.4	50	1882.499995	-5	4700

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Reference Freq.:	LTE B26 Mid Channel	831.5	MHz 15M QPSK CH 26865	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	831.500002	2	2091
15.4	25	831.500002	2	2091
13.09	25	831.500009	9	2091
11.4 (End Point)	25	831.499990	-10	2091
Freq. ERROR vs. Temp.				
15.4	-30	831.499992	-8	2091
15.4	-20	831.499996	-4	2091
15.4	-10	831.499998	-2	2091
15.4	0	831.500006	6	2091
15.4	10	831.500006	6	2091
15.4	20	831.499999	-1	2091
15.4	30	831.499995	-5	2091
15.4	40	831.500007	7	2091
15.4	50	831.500008	8	2091

Reference Freq.:	Part 90 LTE B26 Mid Channel	819	MHz 10M QPSK CH 26740	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
17.71	25	818.999992	-8	2048
15.4	25	818.999997	-3	2048
13.09	25	819.000000	0	2048
11.4 (End Point)	25	819.000008	8	2048
Freq. ERROR vs. Temp.				
15.4	-30	819.000008	8	2048
15.4	-20	818.999991	-9	2048
15.4	-10	818.999998	-2	2048
15.4	0	818.999996	-4	2048
15.4	10	818.999991	-9	2048
15.4	20	818.999990	-10	2048
15.4	30	818.999995	-5	2048
15.4	40	819.000007	7	2048
15.4	50	818.999996	-4	2048

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Reference Freq.:	LTE B30 Mid Channel	2310	MHz 10M QPSK CH 27710	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	2309.999993	-7	6488
15.4	25	2310.000004	4	6488
13.09	25	2310.000002	2.0000002	6488
11.4 (End Point)	25	2310.000001	0.9999999	6488
Freq. ERROR vs. Temp.				
15.4	-30	2310.000007	7.0000001	6488
15.4	-20	2309.999993	-7	6488
15.4	-10	2310.000003	3.0000001	6488
15.4	0	2309.999991	-9	6488
15.4	10	2309.999990	-10	6488
15.4	20	2309.999990	-10	6488
15.4	30	2309.999998	-2	6488
15.4	40	2309.999999	-1	6488
15.4	50	2309.999997	-3	6488

Reference Freq.:	LTE B38 Mid Channel	2595	MHz 10M QPSK CH 38000	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	2594.999992	-8	6488
15.4	25	2595.000006	6.0000002	6488
13.09	25	2594.999998	-2	6488
11.4 (End Point)	25	2594.999991	-9	6488
Freq. ERROR vs. Temp.				
15.4	-30	2595.000000	0	6488
15.4	-20	2594.999990	-10	6488
15.4	-10	2595.000000	0	6488
15.4	0	2594.999990	-10	6488
15.4	10	2594.999991	-9	6488
15.4	20	2595.000006	6.0000002	6488
15.4	30	2594.999993	-7	6488
15.4	40	2594.999993	-7	6488
15.4	50	2595.000006	6.0000002	6488

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Reference Freq.:	LTE B41 Mid Channel	2593	MHz 10M QPSK CH 40620	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	2592.999991	-9	6488
15.4	25	2593.000007	7.0000001	6488
13.09	25	2593.000002	2.0000002	6488
11.4 (End Point)	25	2592.999997	-3	6488
Freq. ERROR vs. Temp.				
15.4	-30	2592.999994	-6	6488
15.4	-20	2592.999996	-4	6488
15.4	-10	2592.999994	-6	6488
15.4	0	2592.999992	-8	6488
15.4	10	2593.000001	0.9999999	6488
15.4	20	2593.000009	8.9999999	6488
15.4	30	2592.999995	-5	6488
15.4	40	2593.000004	4	6488
15.4	50	2593.000001	0.9999999	6488

Reference Freq.:	LTE B66 Mid Channel	1745	MHz 10M QPSK CH 132322	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	1744.999995	-5	6488
15.4	25	1744.999991	-9	6488
13.09	25	1745.000008	8	6488
11.4 (End Point)	25	1745.000009	9.0000001	6488
Freq. ERROR vs. Temp.				
15.4	-30	1745.000006	6	6488
15.4	-20	1745.000007	7.0000001	6488
15.4	-10	1745.000009	9.0000001	6488
15.4	0	1744.999993	-7	6488
15.4	10	1745.000007	7.0000001	6488
15.4	20	1745.000003	3.0000001	6488
15.4	30	1744.999998	-2	6488
15.4	40	1744.999993	-7	6488
15.4	50	1744.999992	-8	6488

Note: The battery is rated 15.4V dc.

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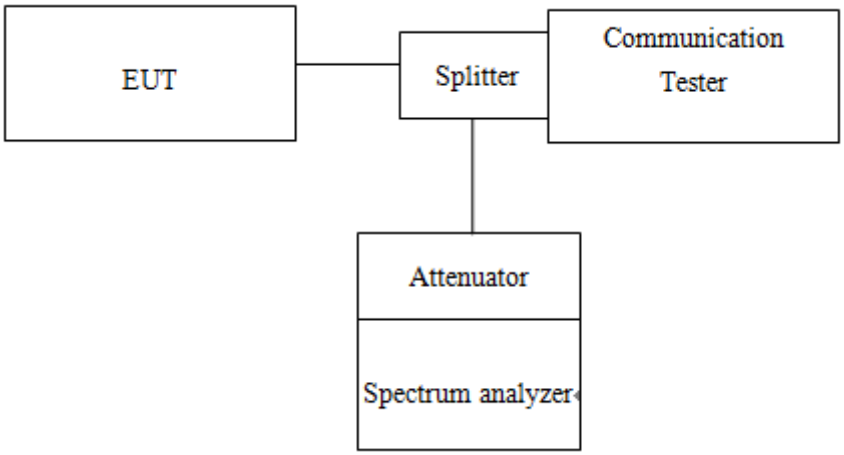
11. PEAK TO AVERAGE RATIO

11.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2. Test SET-UP



11.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25

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11.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.78	2.76	2.75
1880	9400	2.68	2.70	2.66
1907.6	9538	2.51	2.50	2.49

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.09	3.09	3.08
1732.6	1413	3.00	3.95	3.00
1752.6	1513	3.26	3.07	3.06

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.06	2.98	2.95
836.6	4183	2.80	2.76	2.84
846.6	4233	2.85	2.77	2.82

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	3.95	13	1851.5	18615	5.03	13
1880.0	18900	4.49	13	1880.0	18900	4.81	13
1909.3	19193	4.18	13	1908.5	19185	4.62	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	5.69	13	1855.0	18650	4.96	13
1880.0	18900	5.33	13	1880.0	18900	4.81	13
1907.5	19175	5.20	13	1905.0	19150	4.69	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	4.98	13	1860.0	18700	5.16	13
1880.0	18900	4.62	13	1880.0	18900	6.87	13
1902.5	19125	4.57	13	1900.0	19100	5.45	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	5.61	13	1711.5	19965	5.77	13
1732.5	20175	5.42	13	1732.5	20175	5.53	13
1754.3	20393	5.90	13	1753.5	20385	5.95	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	19957	5.93	13	1715.0	20000	5.98	13
1732.5	20175	5.76	13	1732.5	20175	6.06	13
1752.5	20375	5.97	13	1750.0	20350	6.02	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	20025	5.60	13	1720.0	20050	5.64	13
1732.5	20175	5.48	13	1732.5	20175	7.01	13
1747.5	20325	6.08	13	1745.0	20300	7.02	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	20407	4.15	13	825.5	20415	4.71	13
836.5	20525	4.20	13	836.5	20525	5.27	13
848.3	20643	3.56	13	847.5	20635	4.19	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	20425	5.36	13	829.0	20450	5.76	13
836.5	20525	5.07	13	836.5	20525	5.21	13
846.5	20625	5.02	13	844.0	20600	5.30	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2502.5	20775	5.18	13	2505.0	20800	5.27	13
2535.0	21100	5.93	13	2535.0	21100	6.17	13
2567.5	21375	5.74	13	2565.0	21350	5.71	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2507.5	20825	4.98	13	2510	20850	5.30	13
2535.0	21100	5.48	13	2535	21100	5.65	13
2562.5	21375	5.42	13	2560	21350	5.62	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	4.28	13	700.5	23025	4.78	13
707.5	23095	4.83	13	707.5	23095	5.18	13
715.3	23173	4.35	13	714.5	23165	4.80	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	5.35	13	704.0	23060	5.63	13
707.5	23095	5.48	13	707.5	23095	5.58	13
713.5	23155	5.34	13	711.0	23130	5.53	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
779.5	23205	6.29	13	782.0	23230	8.30	13
782.0	23230	6.03	13				
784.5	23255	5.80	13				

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LTE BAND 14							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
790.5	23305	4.89	13	793.0	23330	4.68	13
793	23330	4.70	13				
795.5	23355	4.70	13				

LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	5.67	13	709.0	23780	5.95	13
710.0	23790	5.27	13	710.0	23790	5.53	13
713.5	23825	5.29	13	711.0	23800	5.49	13

LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	26047	4.97	13	1851.5	26055	5.28	13
1882.5	26365	4.65	13	1882.5	26365	5.69	13
1914.3	26683	4.03	13	1913.5	26675	4.96	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	26065	5.68	13	1855.0	26090	5.52	13
1882.5	26365	5.92	13	1882.5	26365	5.69	13
1912.5	26665	5.38	13	1910.0	26640	5.35	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	26115	5.10	13	1860.0	26140	5.59	13
1882.5	26365	5.31	13	1882.5	26365	5.73	13
1907.5	26615	5.32	13	1905.0	26590	5.75	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	3.95	13	815.5	26705	4.59	13
831.5	26865	3.91	13	831.5	26865	4.37	13
848.3	27033	3.19	13	847.5	27025	3.86	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	5.18	13	820.0	26750	5.50	13
831.5	26865	4.83	13	831.5	26865	4.86	13
846.5	27015	4.77	13	844.0	26990	5.03	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		64QAM	Limit				
822.5	26775	4.92	13				
831.5	26865	4.60	13				
841.5	26965	4.86	13				

LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	4.68	13	815.5	26705	5.19	13
819.0	26740	3.95	13	819	26740	4.39	13
823.3	26783	3.70	13	822.5	26775	4.04	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	5.26	13	819.0	26740	4.78	13
819.0	26740	4.86	13				
821.5	26765	4.54	13				

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LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2307.5	27685	6.27	13	2310.0	27710	6.04	13
2310.0	27710	6.32	13				
2312.5	27735	6.27	13				

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2572.5	37775	8.82	13	2575	37800	9.59	13
2595.0	38000	11.79	13	2595	38000	10.95	13
2617.5	38225	8.57	13	2615	38200	11.63	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2577.5	37825	10.26	13	2580.0	37850	7.78	13
2595.0	38000	10.16	13	2595.0	38000	10.25	13
2612.5	38175	11.10	13	2610.0	38150	9.82	13

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2498.5	39675	7.14	13	2501.0	39700	10.70	13
2593.0	40620	7.91	13	2593.0	40620	9.24	13
2687.5	41565	10.44	13	2685.0	41540	10.08	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2503.5	39725	9.79	13	2506.0	39750	8.40	13
2593.0	40620	9.68	13	2593.0	40620	11.03	13
2682.5	41515	11.83	13	2680.0	41490	10.18	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1710.7	131979	5.09	13	1711.5	131987	4.91	13
1745.0	132322	5.36	13	1745.0	132322	4.61	13
1779.3	132665	5.33	13	1778.5	132657	4.68	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1712.5	131997	5.26	13	1715.0	132022	5.24	13
1745.0	132322	5.01	13	1745.0	132322	5.18	13
1777.5	132647	4.98	13	1775.0	132622	5.16	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1717.5	132047	5.02	13	1720.0	132072	4.99	13
1745.0	132322	5.29	13	1745.0	132322	5.11	13
1772.5	132597	5.29	13	1770.0	132572	5.13	13

Please refer to next page for test plots.

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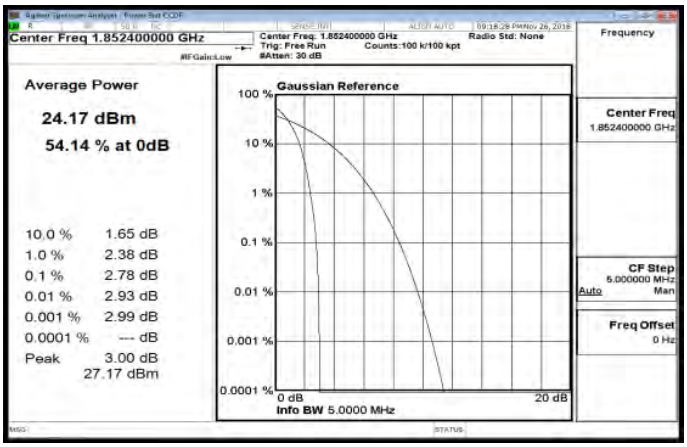
WCDMA_B2_LowCH9262-1852.4



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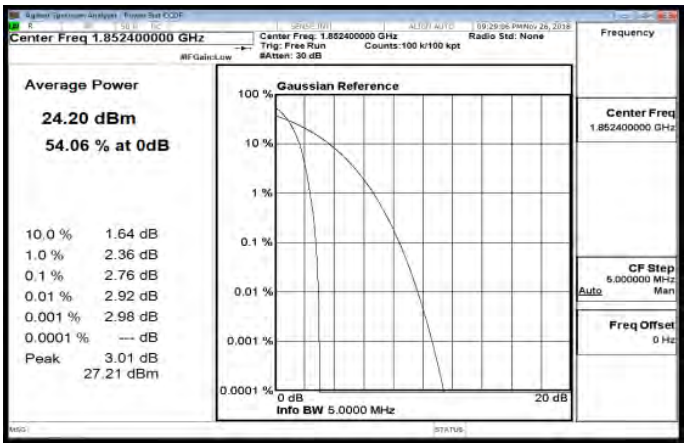

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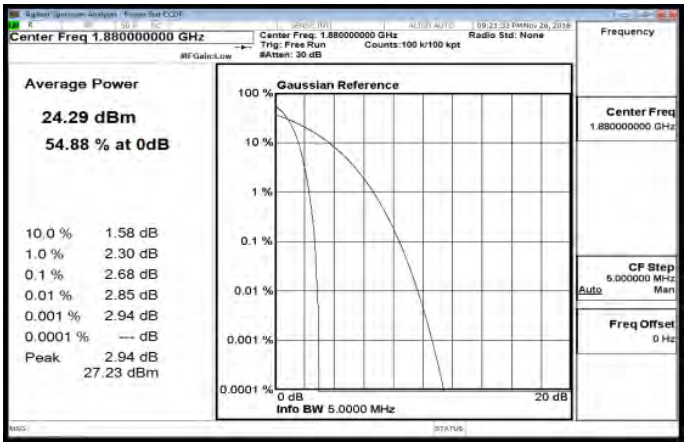

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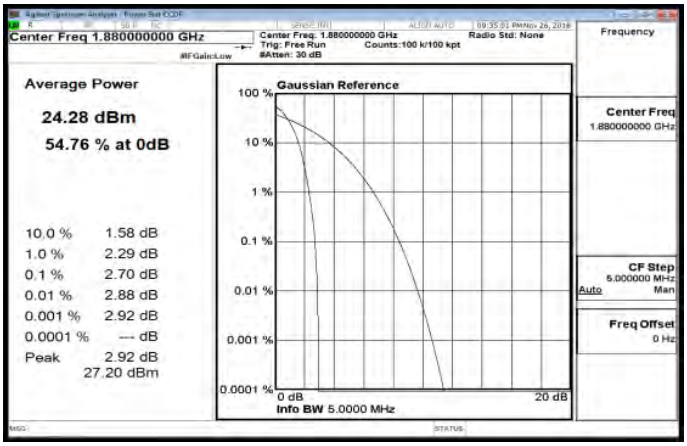

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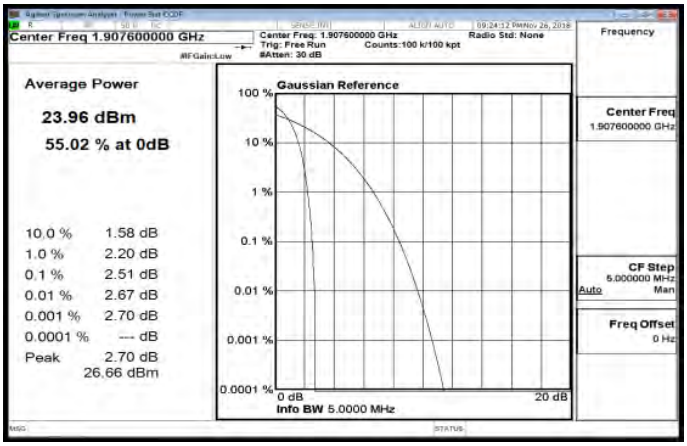

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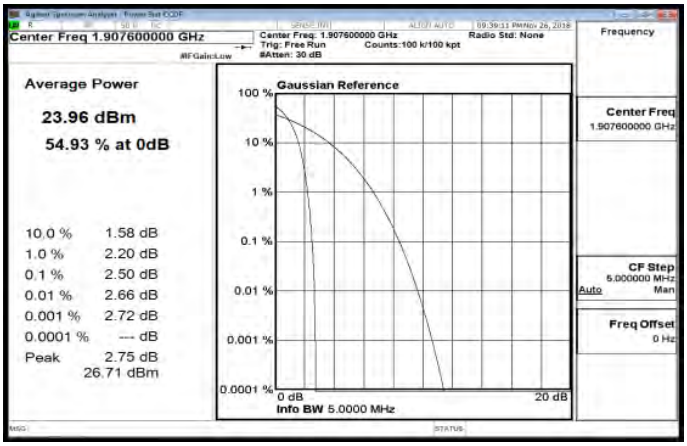

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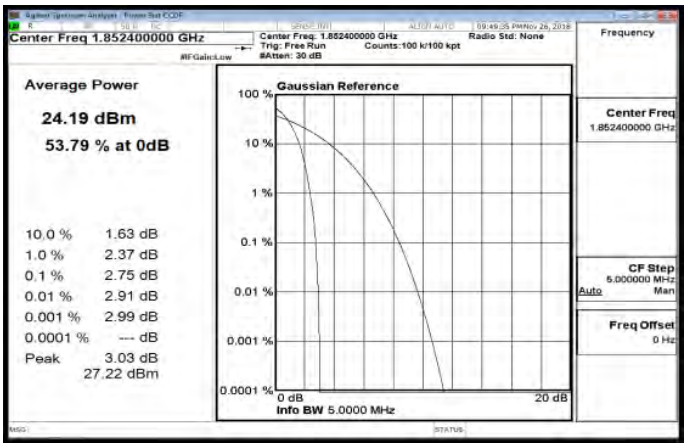

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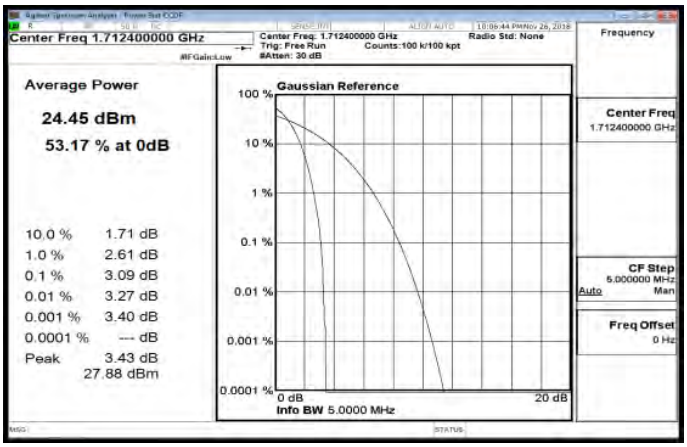

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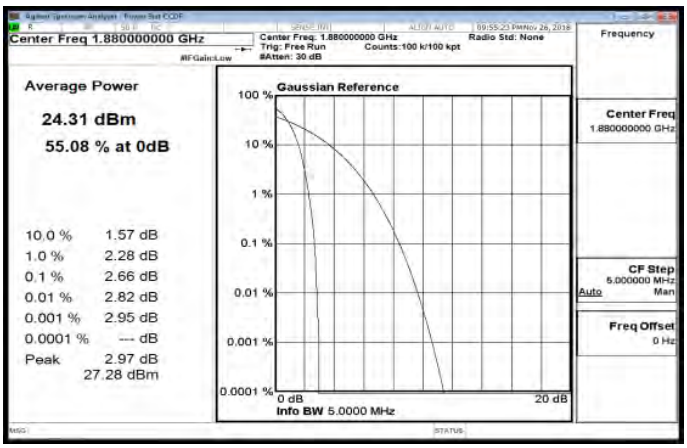

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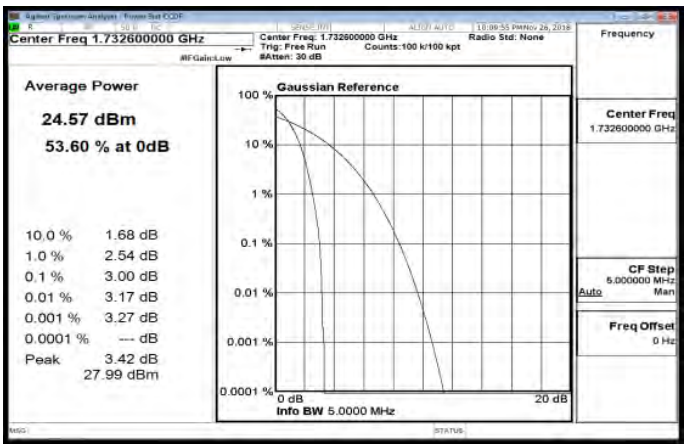

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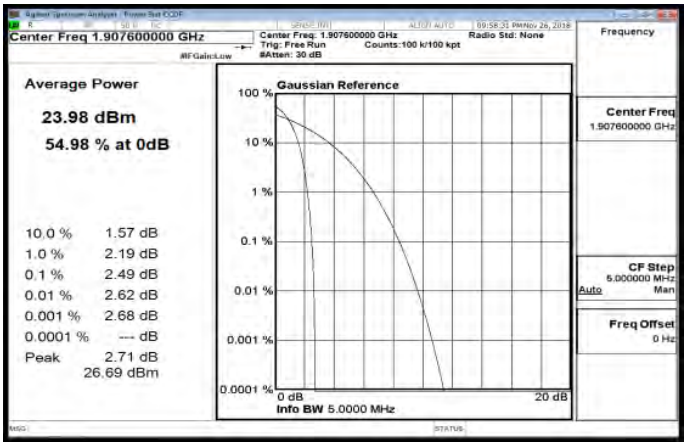

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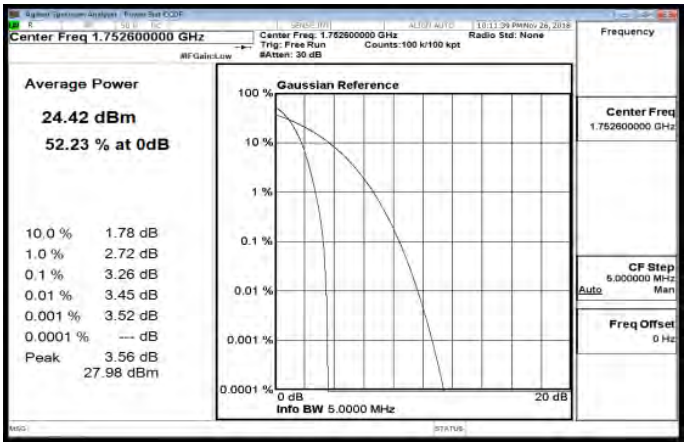

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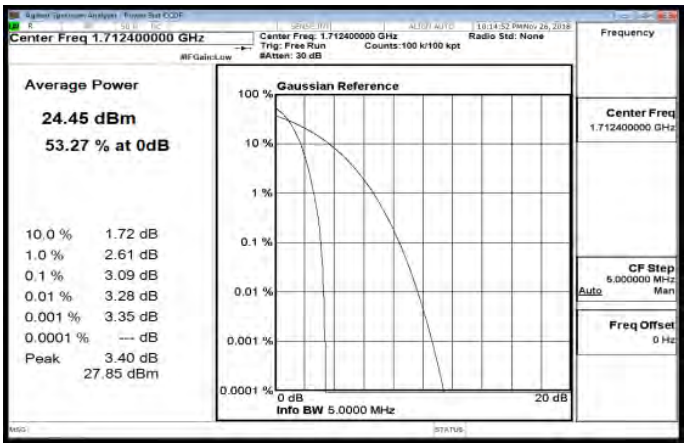

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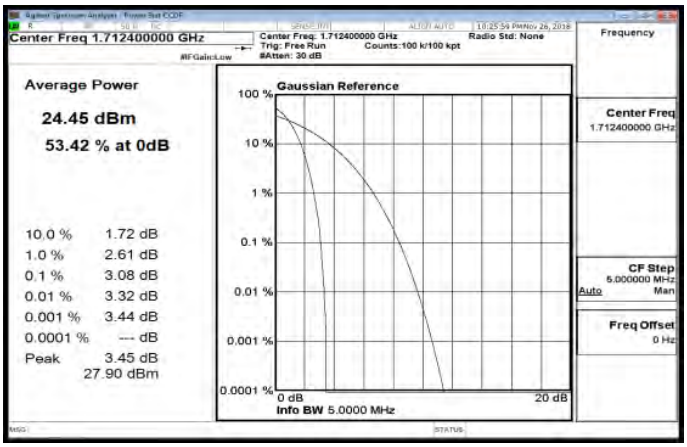

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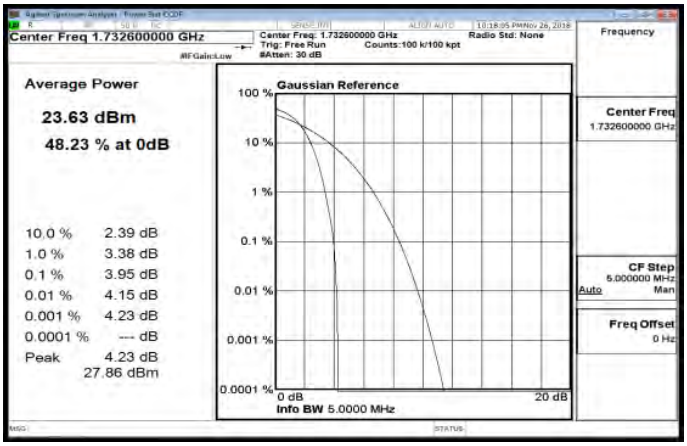

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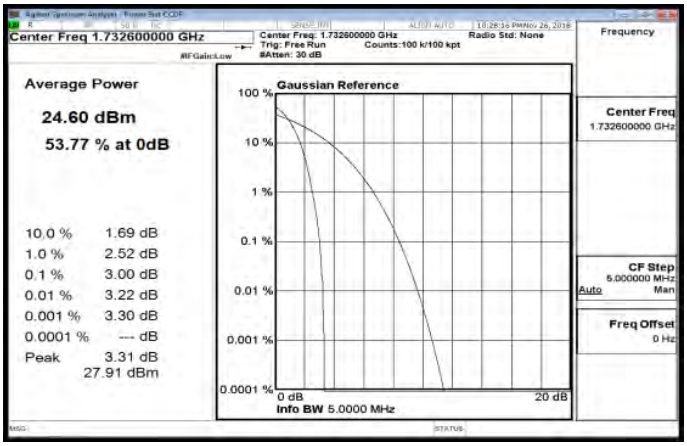

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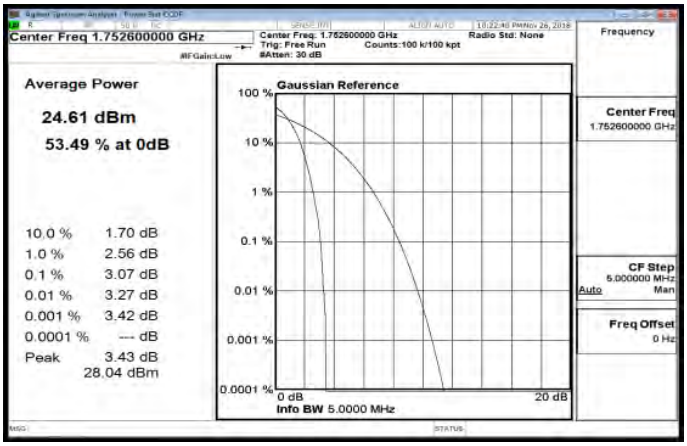

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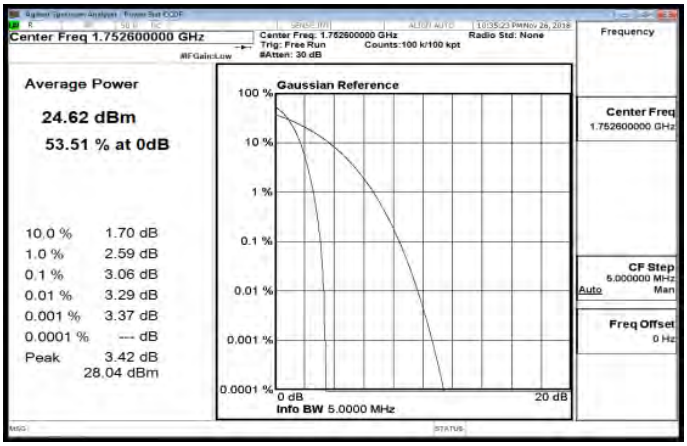

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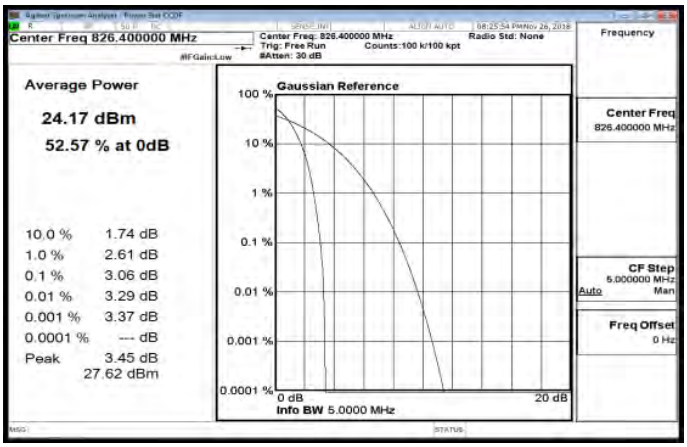
WCDMA_B5_LowCH4132-826.4



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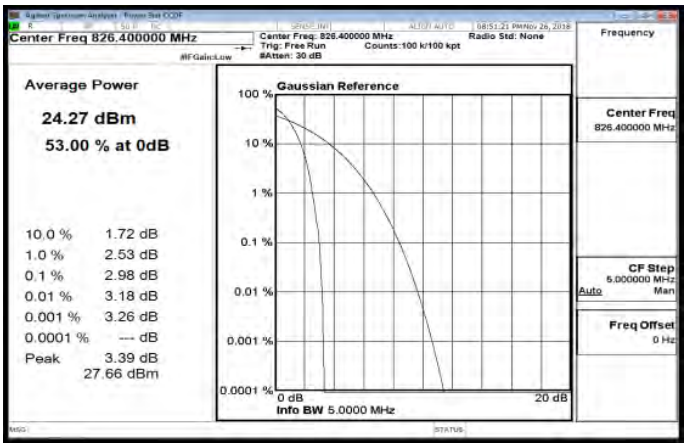

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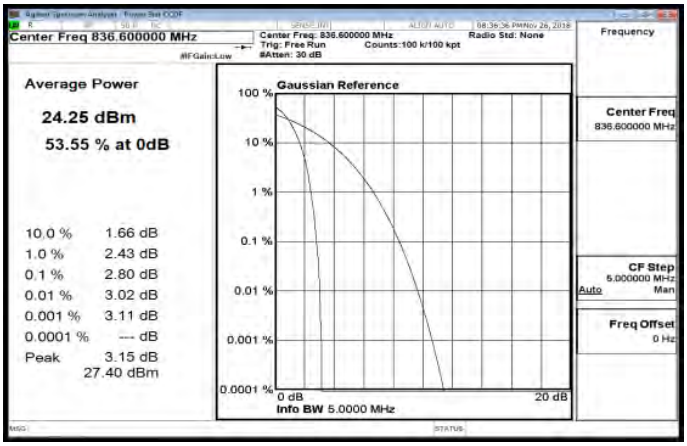

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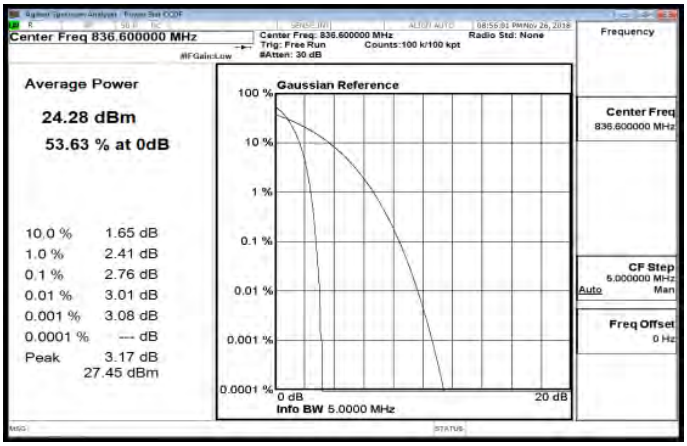

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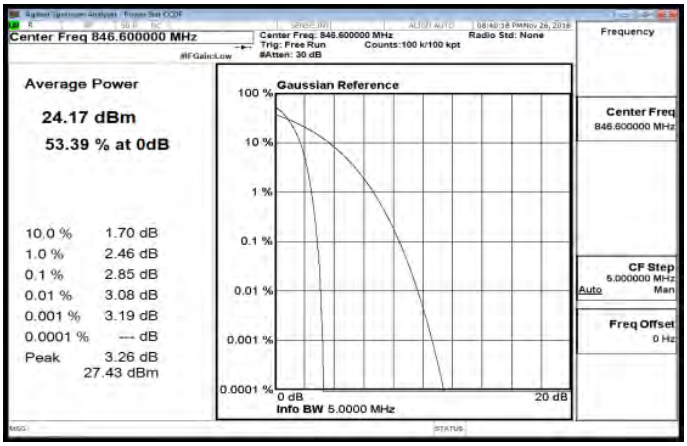

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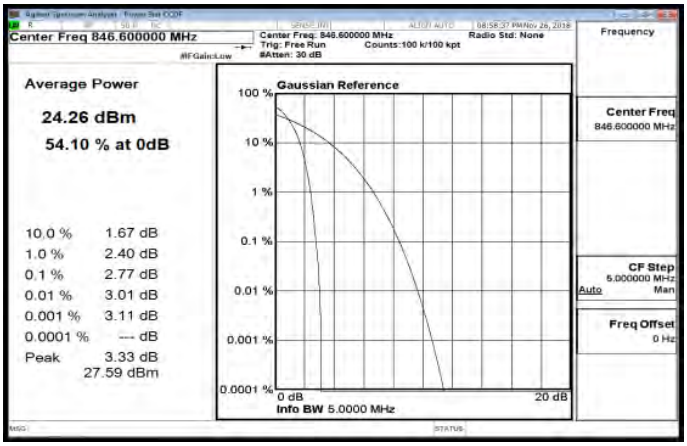

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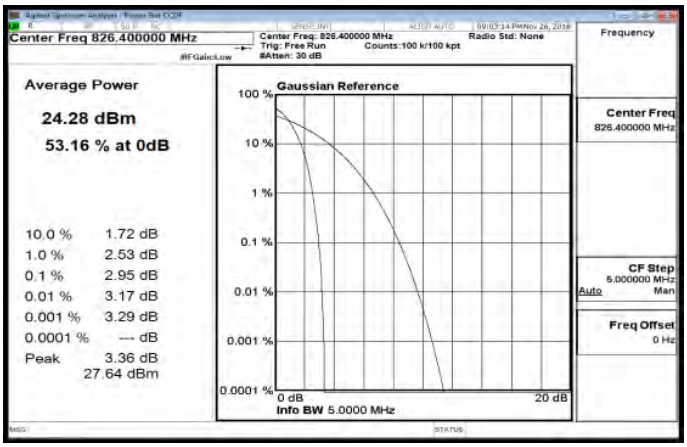
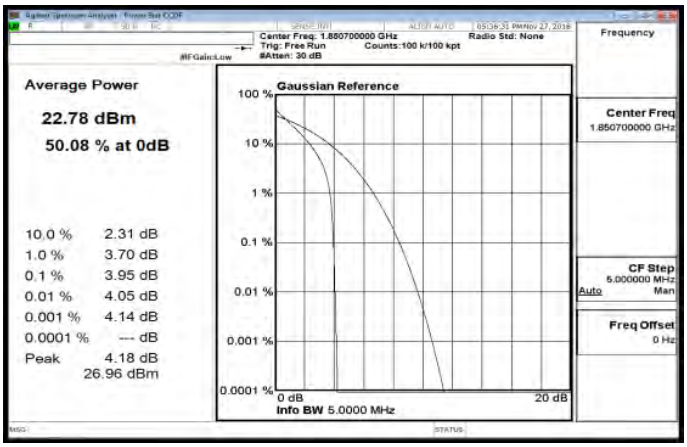
HSUPA_B5_LowCH4132-826.4



LTE_Band2_1_4MHz_64QAM_6_0_LowCH18607-1850.7



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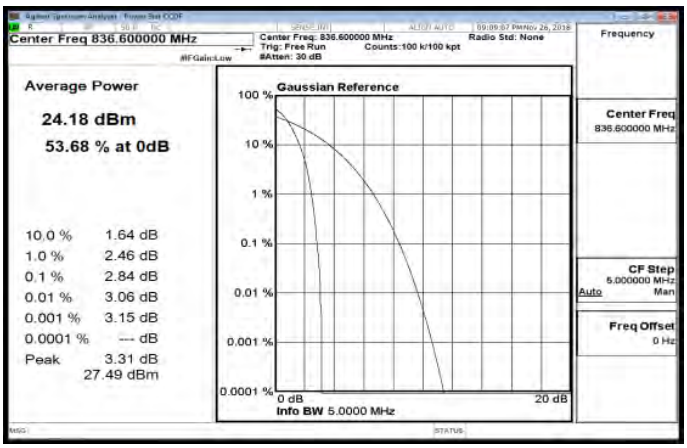
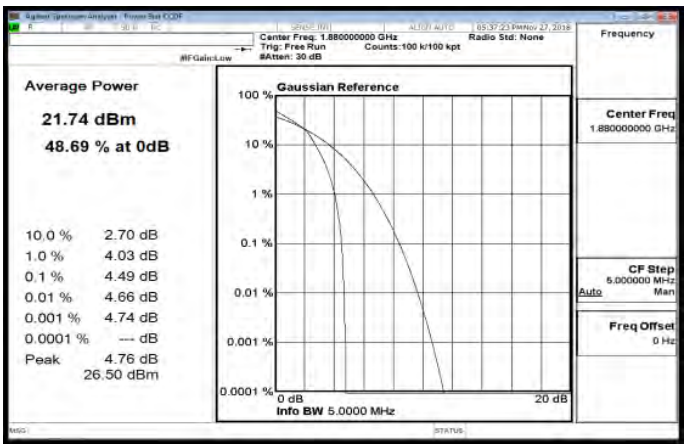


LTE_Band2_1_4MHz_64QAM_6_0_MidCH18900-1880



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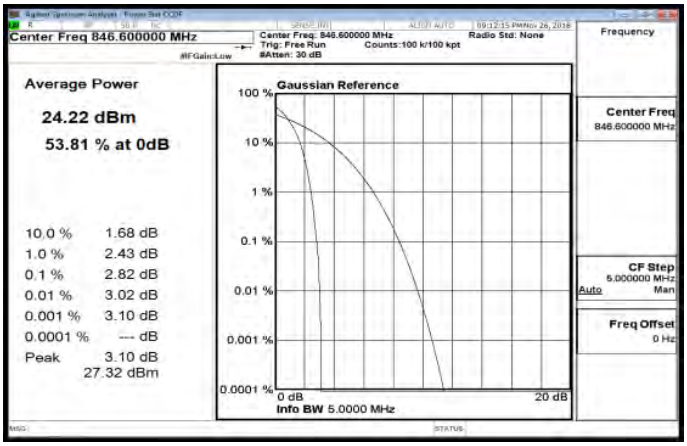

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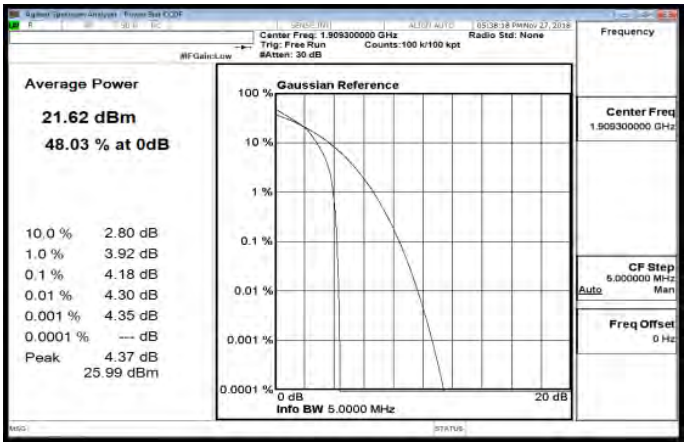

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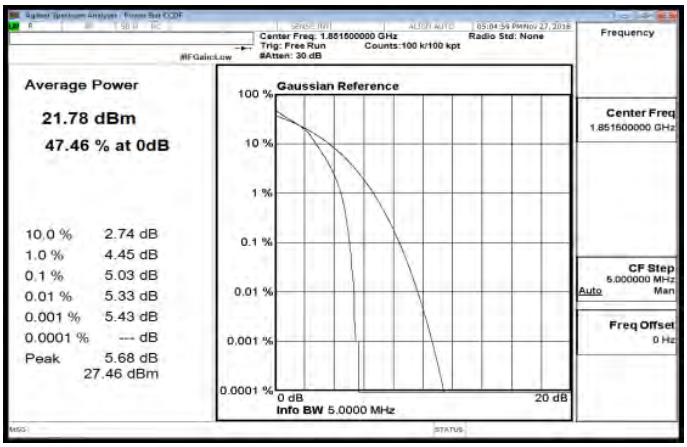
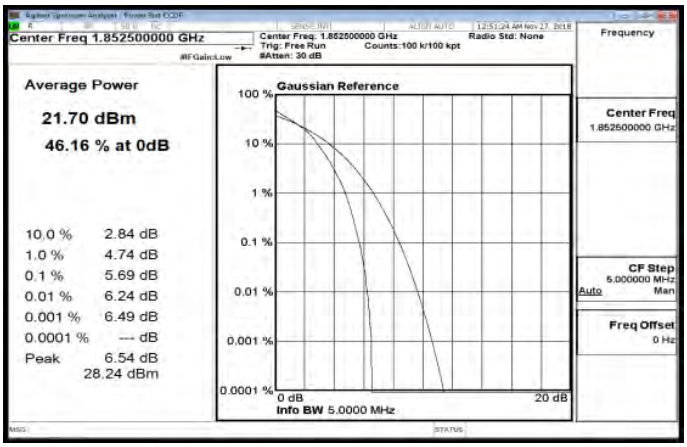
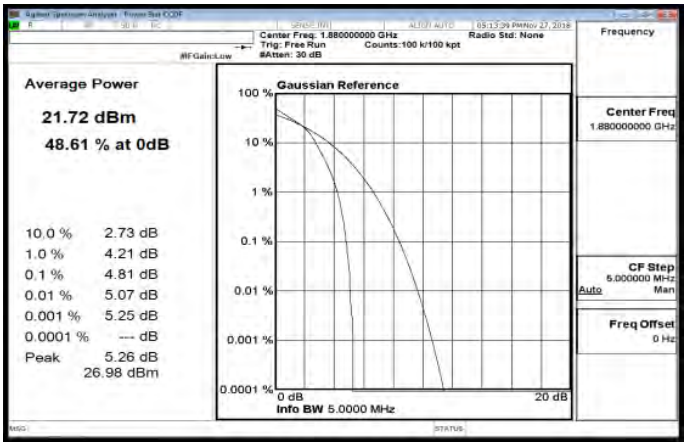
LTE_Band2_3MHz_64QAM_15_0_LowCH18615-1851.5



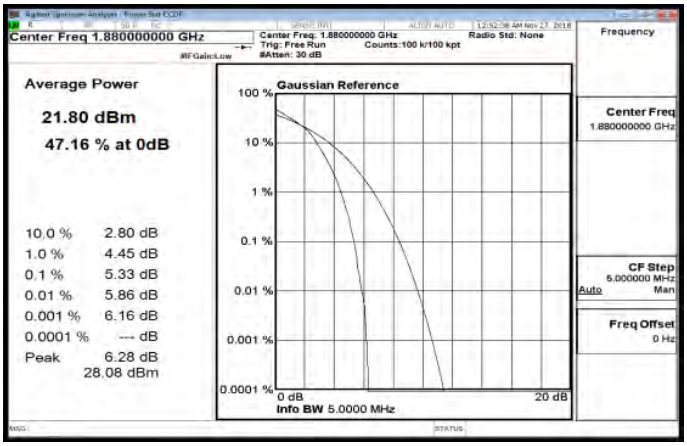
LTE_Band2_5MHz_64QAM_25_0_LowCH18625-1852.5



LTE_Band2_3MHz_64QAM_15_0_MidCH18900-1880



LTE_Band2_5MHz_64QAM_25_0_MidCH18900-1880



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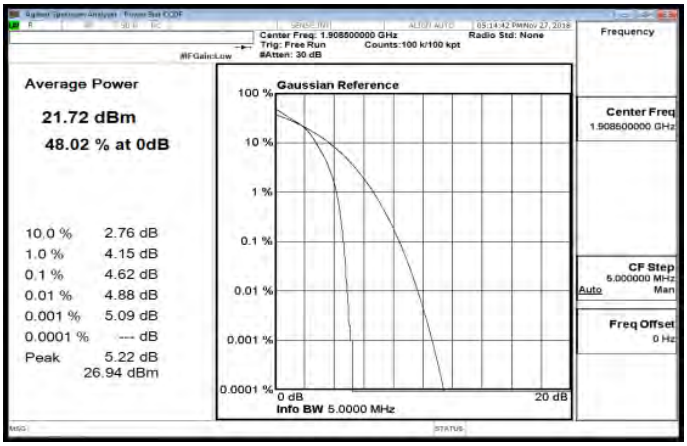

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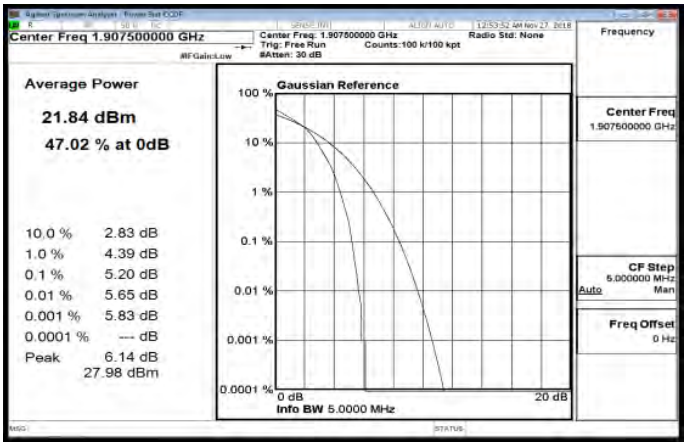

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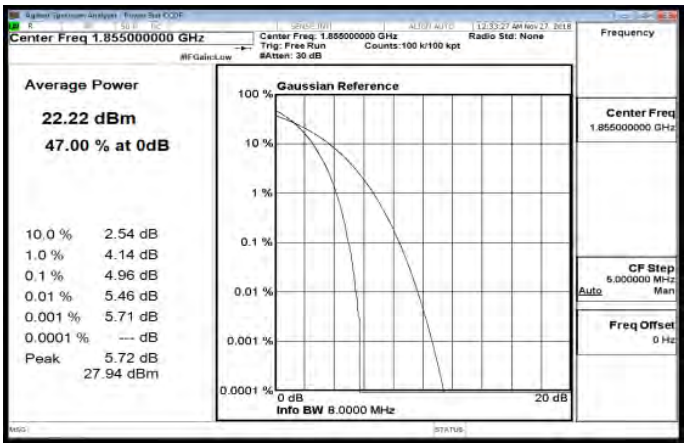
LTE_Band2_10MHz_64QAM_50_0_LowCH18650-1855



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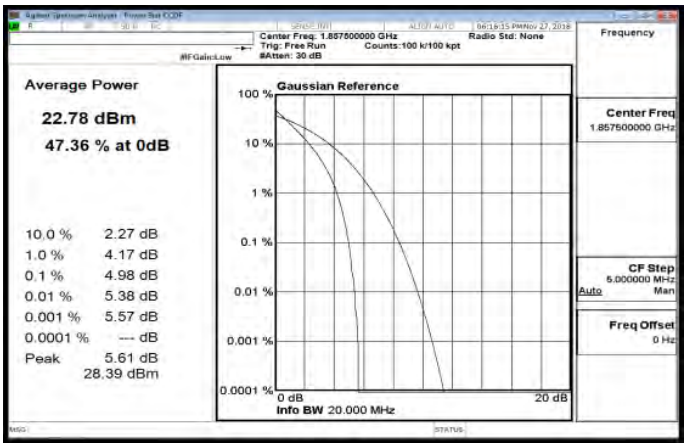
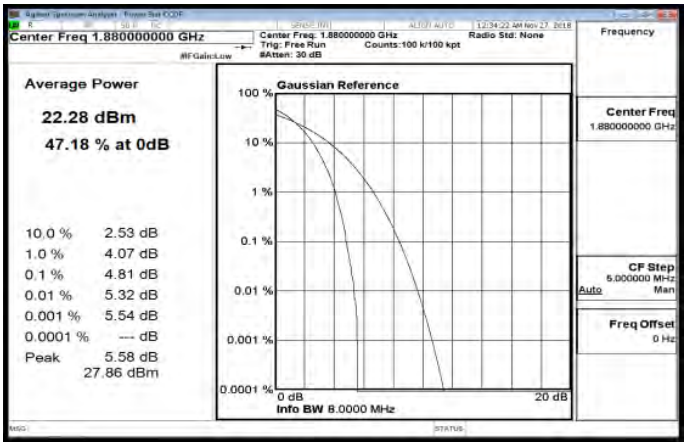
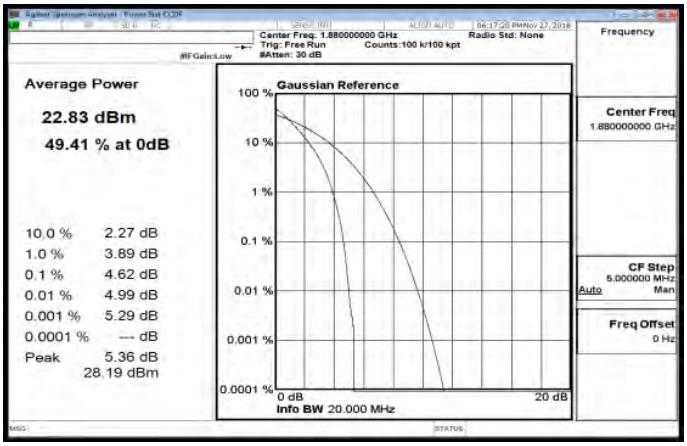


LTE_Band2_10MHz_64QAM_50_0_MidCH18900-1880



LTE_Band2_15MHz_64QAM_75_0_MidCH18900-1880



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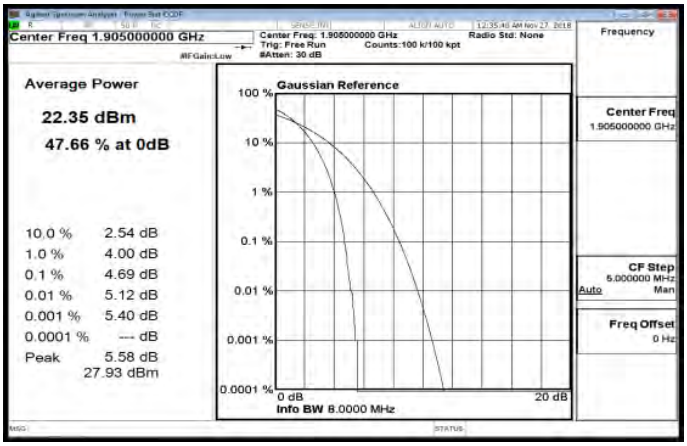
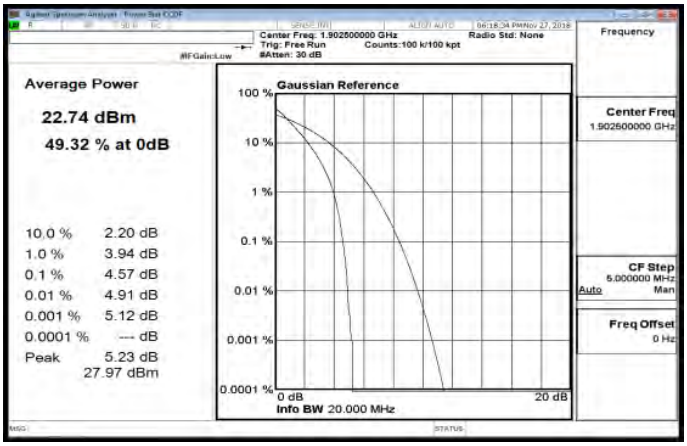


LTE_Band2_15MHz_64QAM_75_0_HighCH19125-1902.5



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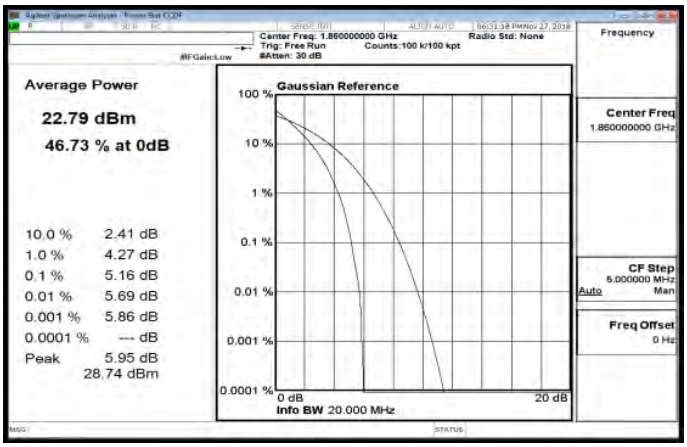
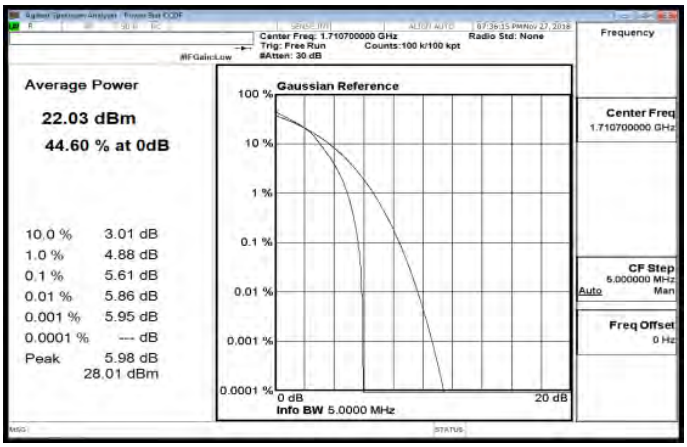
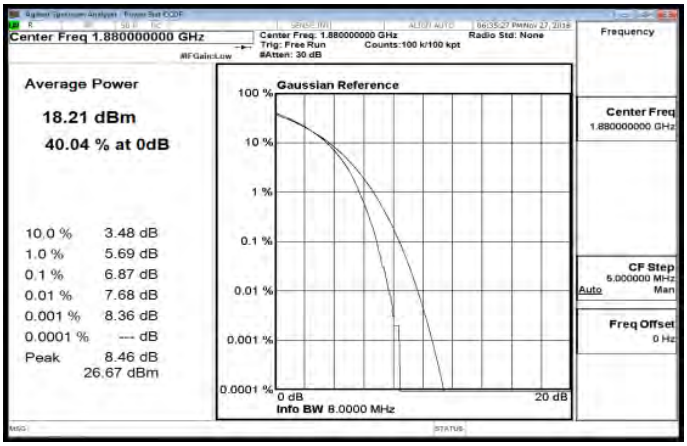
LTE_Band2_20MHz_64QAM_100_0_LowCH18700-1860



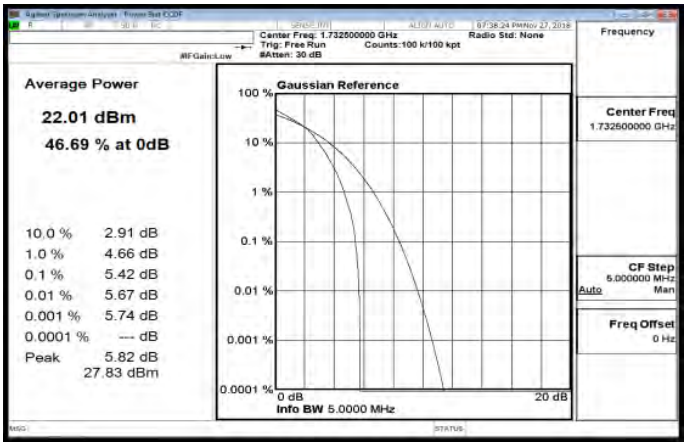
LTE_Band4_1_4MHz_64QAM_6_0_LowCH19957-1710.7



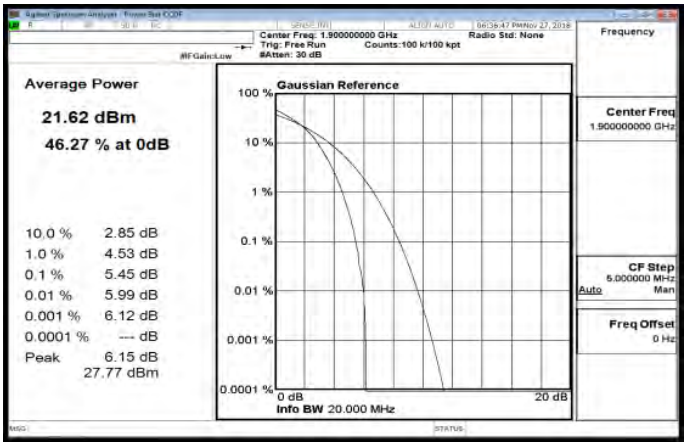
LTE_Band2_20MHz_64QAM_100_0_MidCH18900-1880



LTE_Band4_1_4MHz_64QAM_6_0_MidCH20175-1732.5



LTE_Band2_20MHz_64QAM_100_0_HighCH19100-1900



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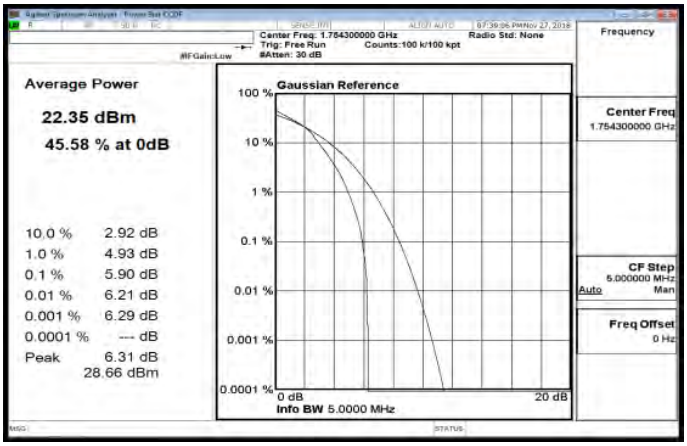

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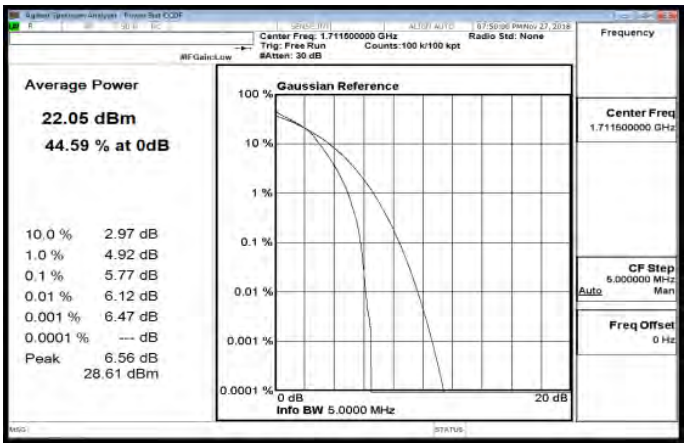
LTE_Band4_3MHz_64QAM_15_0_LowCH19965-1711.5



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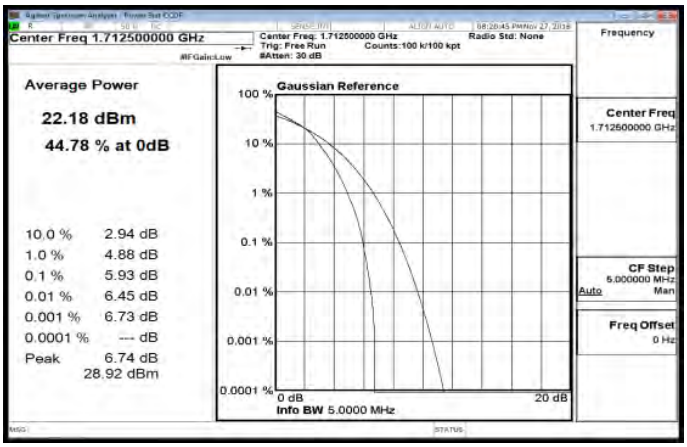
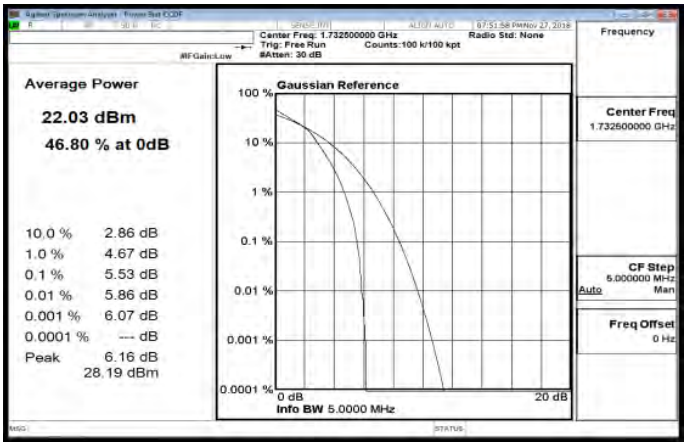


LTE_Band4_3MHz_64QAM_15_0_MidCH20175-1732.5



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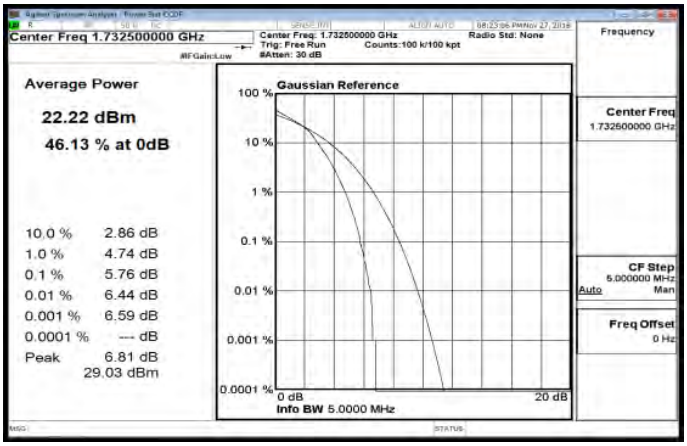

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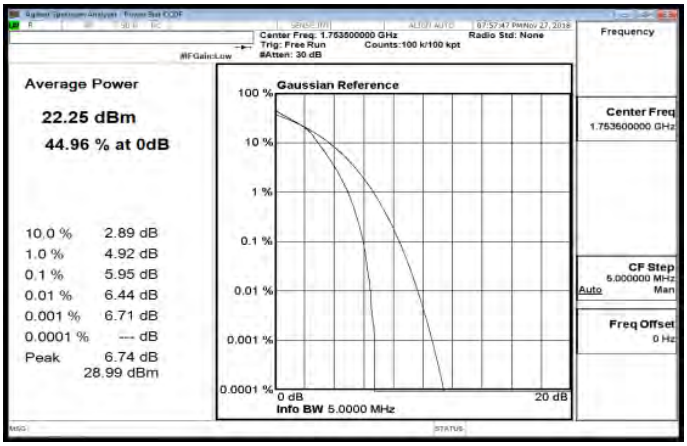

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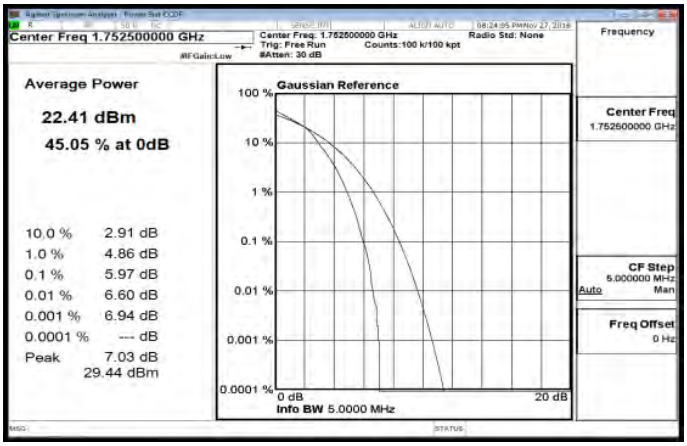

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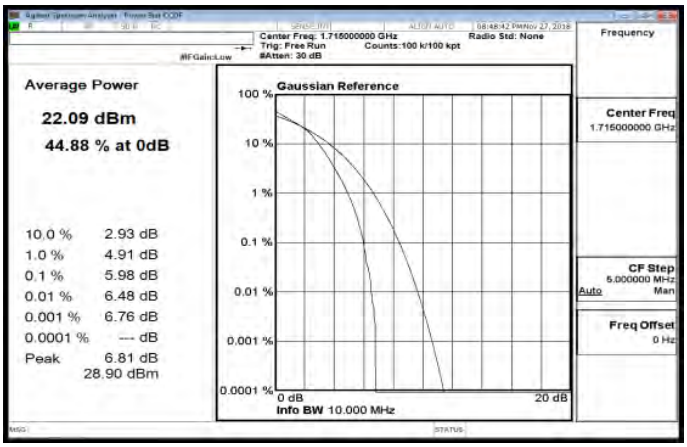
LTE_Band4_10MHz_64QAM_50_0_LowCH20000-1715



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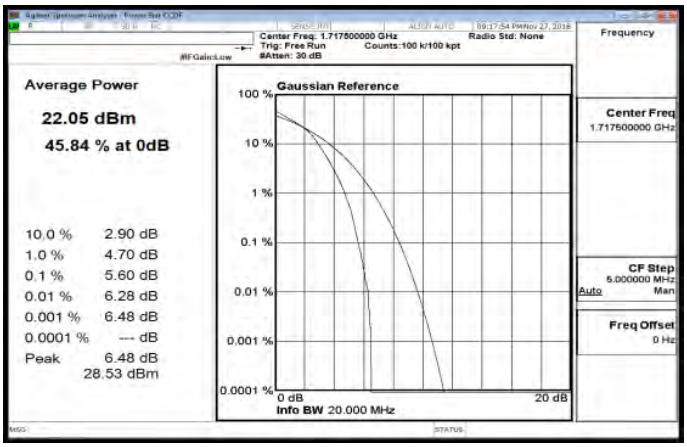

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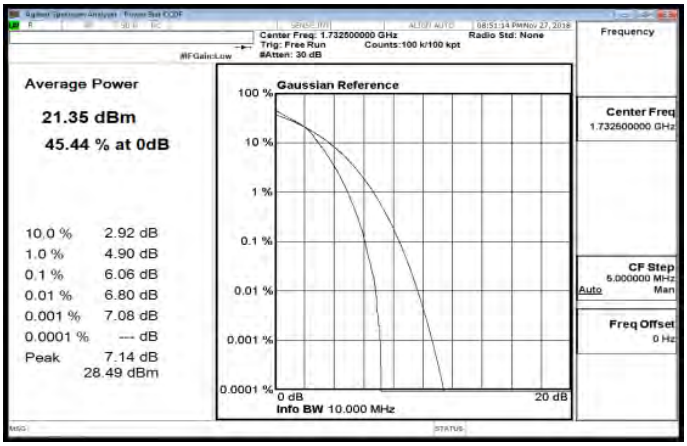

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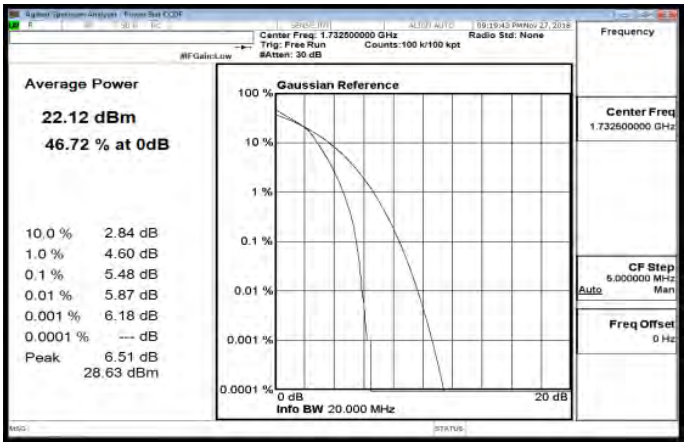

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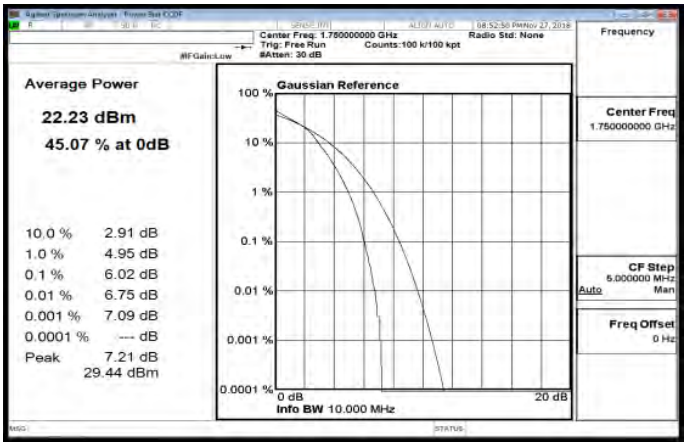

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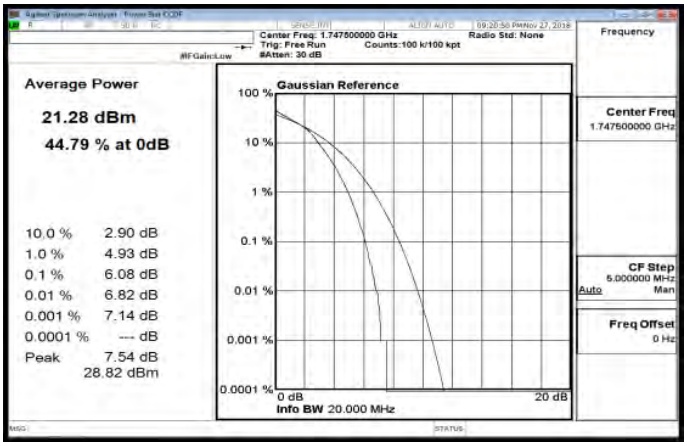

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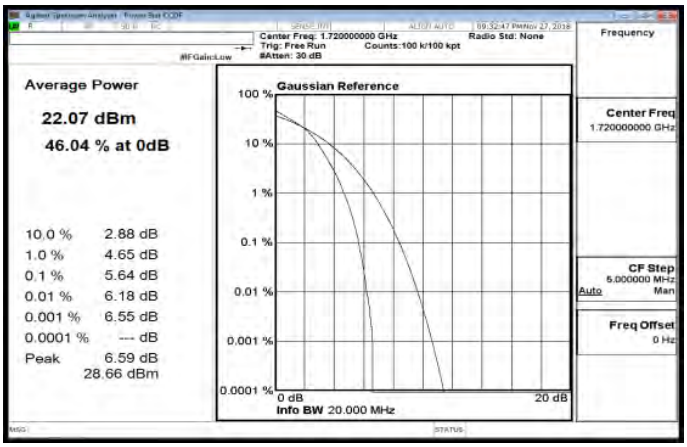
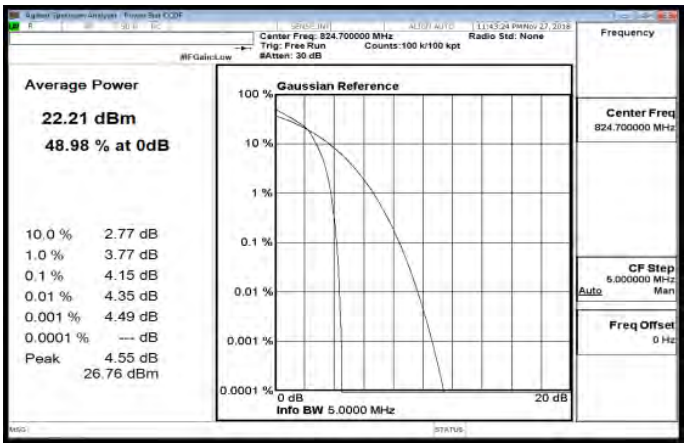
LTE_Band4_20MHz_64QAM_100_0_LowCH20050-1720



LTE_Band5_1_4MHz_64QAM_6_0_LowCH20407-824.7



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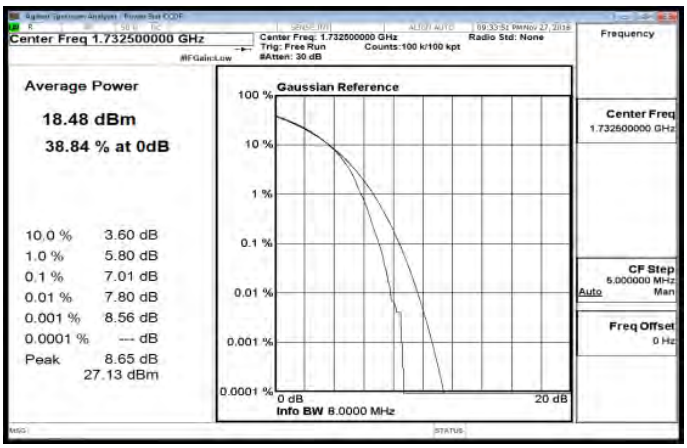

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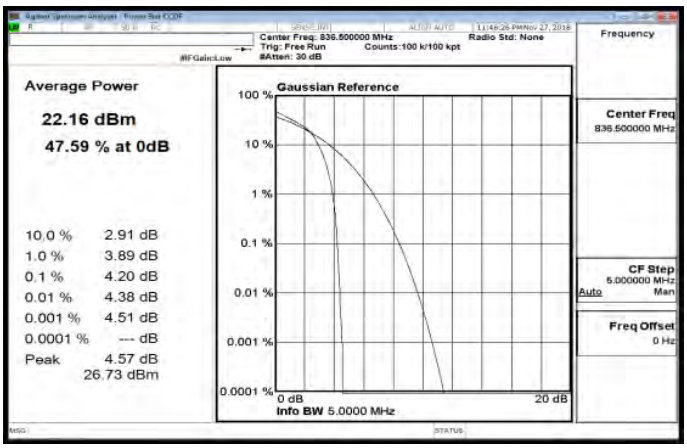

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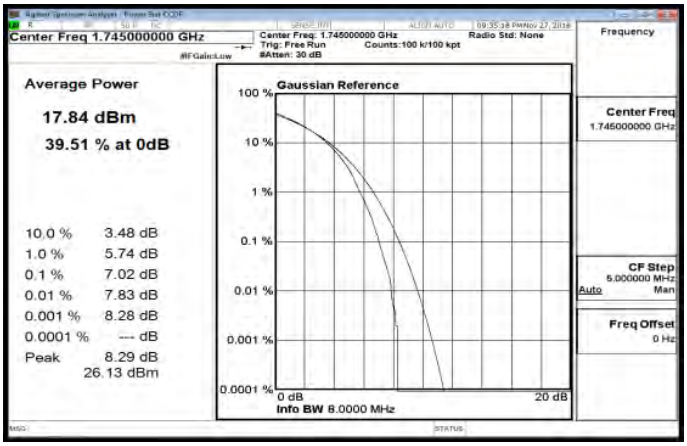

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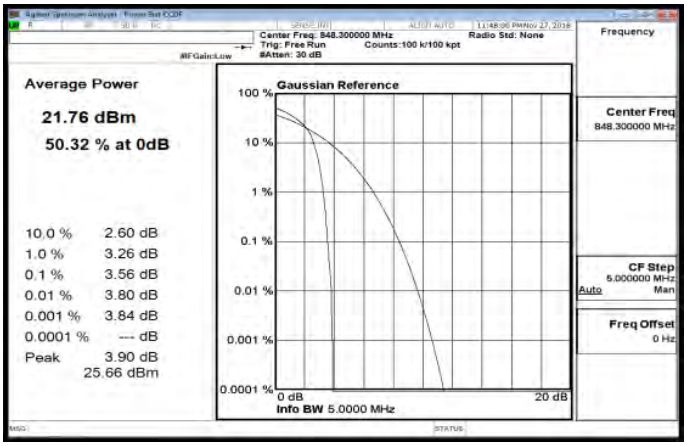

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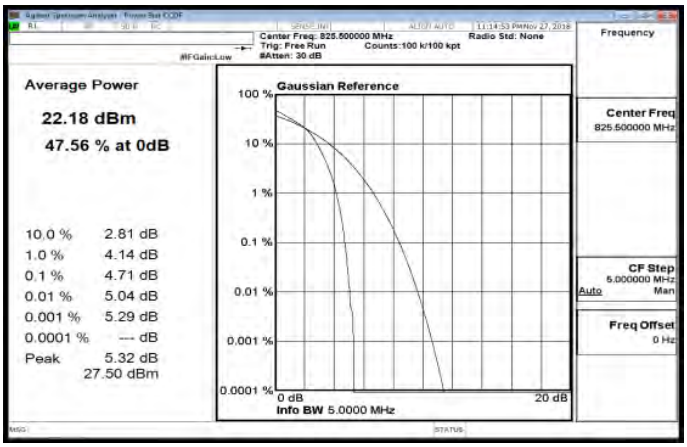
LTE_Band5_3MHz_64QAM_15_0_LowCH20415-825.5



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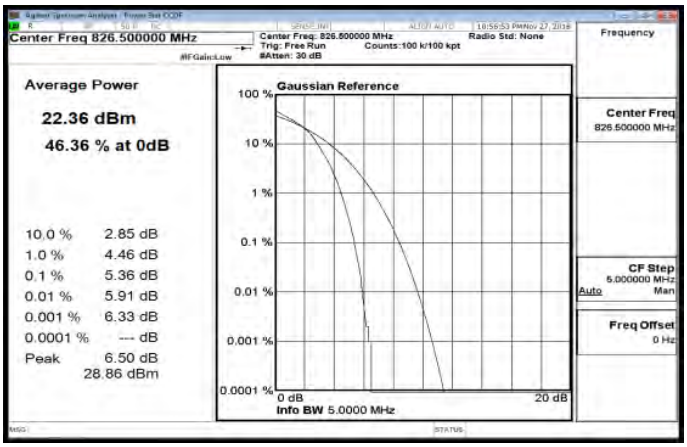
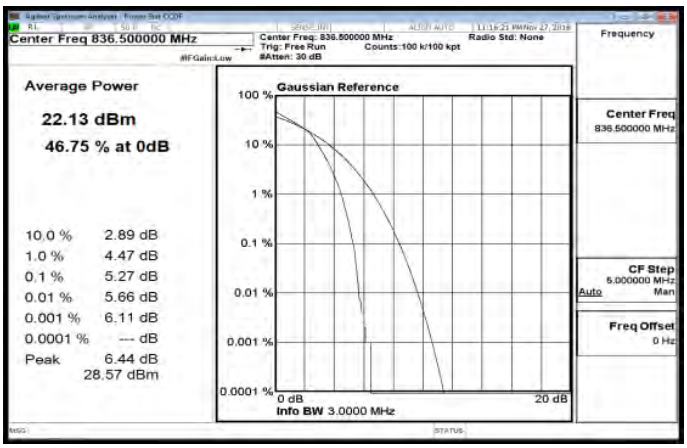


LTE_Band5_3MHz_64QAM_15_0_MidCH20525-836.5



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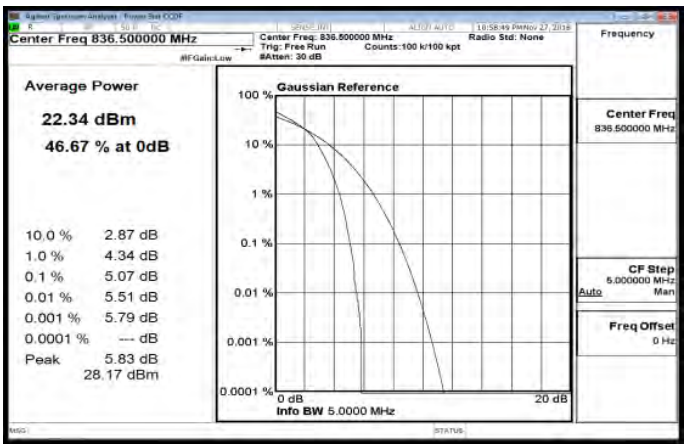

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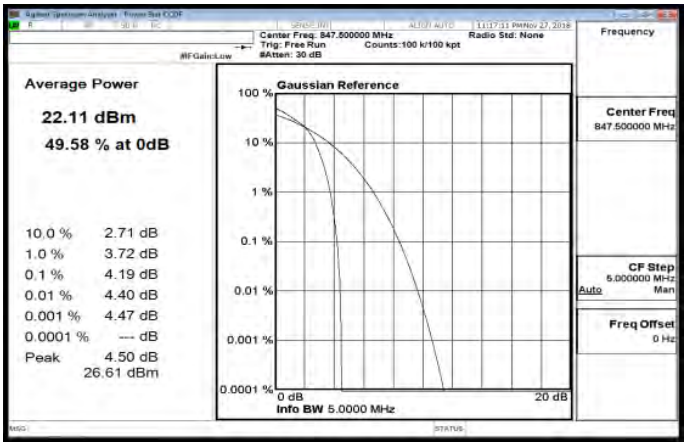

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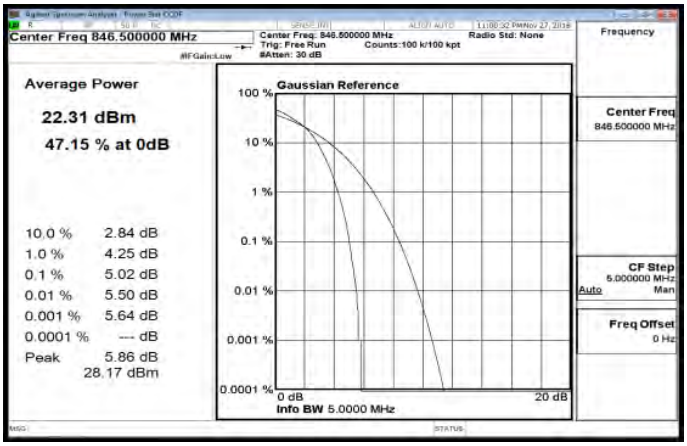

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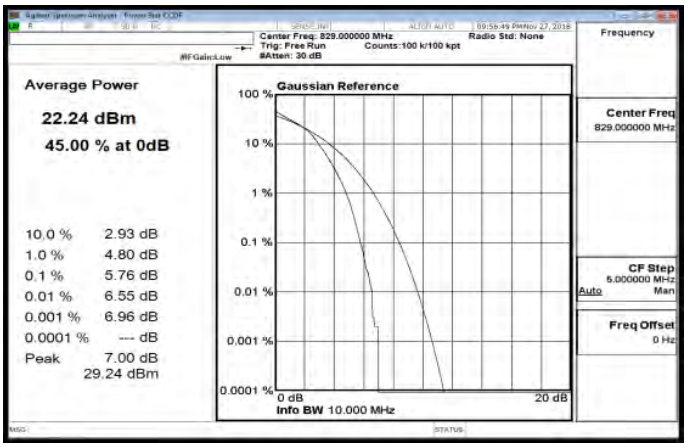
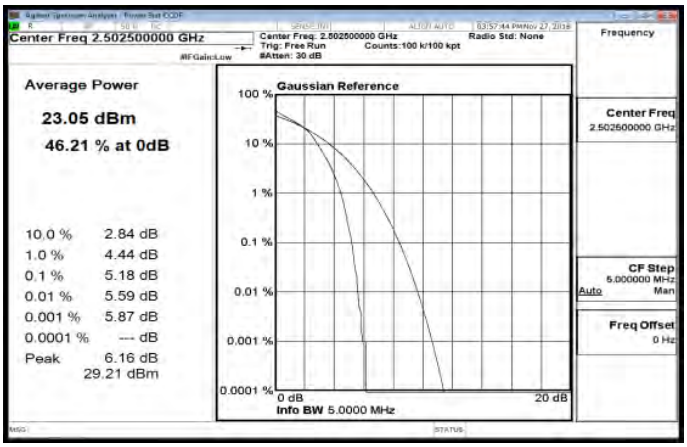
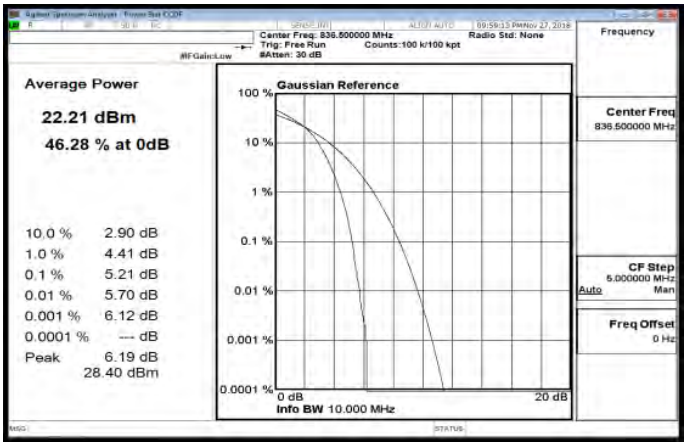
LTE_Band5_10MHz_64QAM_50_0_LowCH20450-829



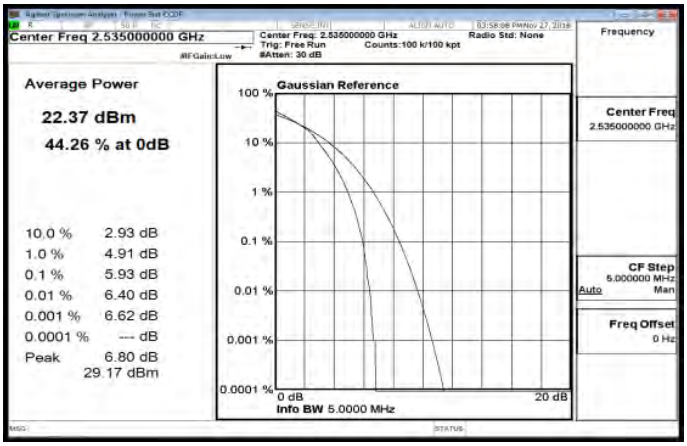
LTE_Band7_5MHz_64QAM_25_0_LowCH20775-2502.5



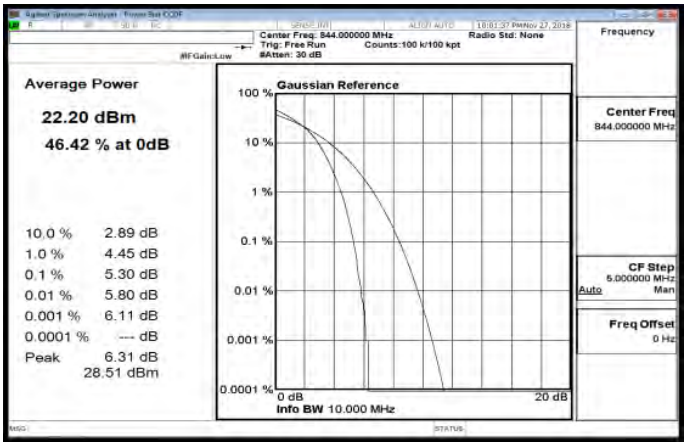
LTE_Band5_10MHz_64QAM_50_0_MidCH20525-836.5



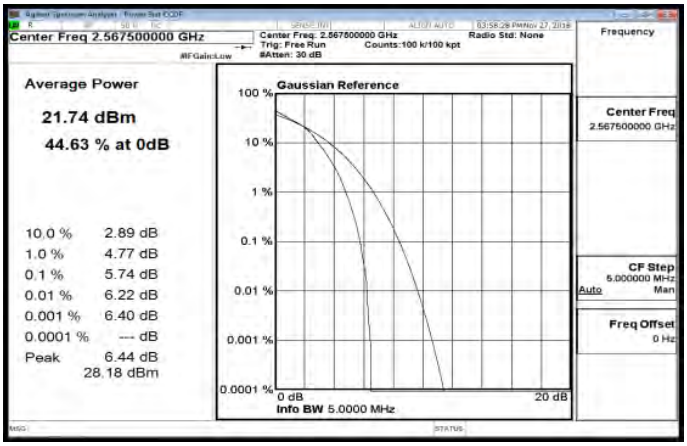
LTE_Band7_5MHz_64QAM_25_0_MidCH21100-2535



LTE_Band5_10MHz_64QAM_50_0_HighCH20600-844



LTE_Band7_5MHz_64QAM_25_0_HighCH21425-2567.5



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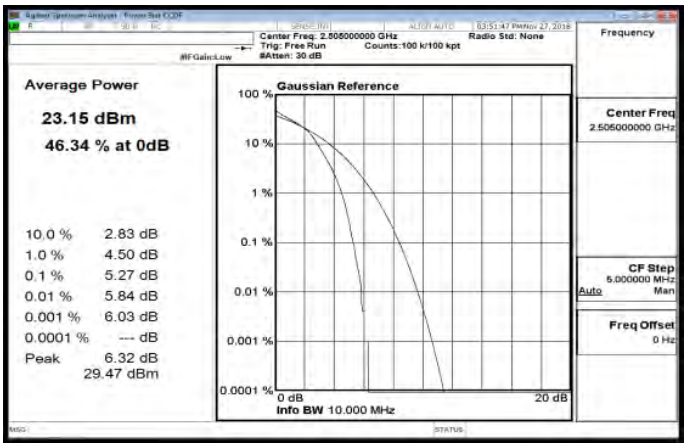
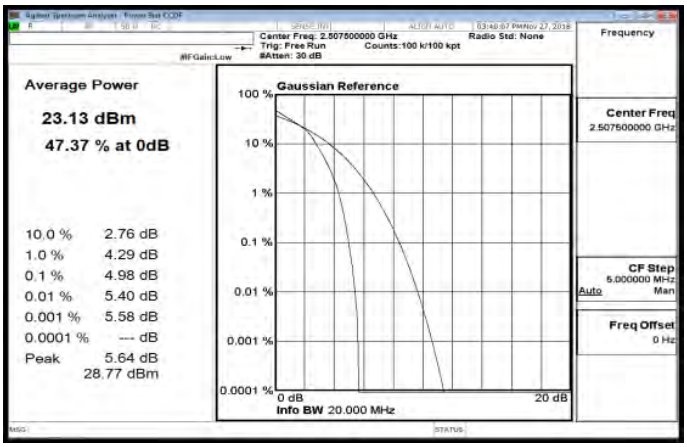
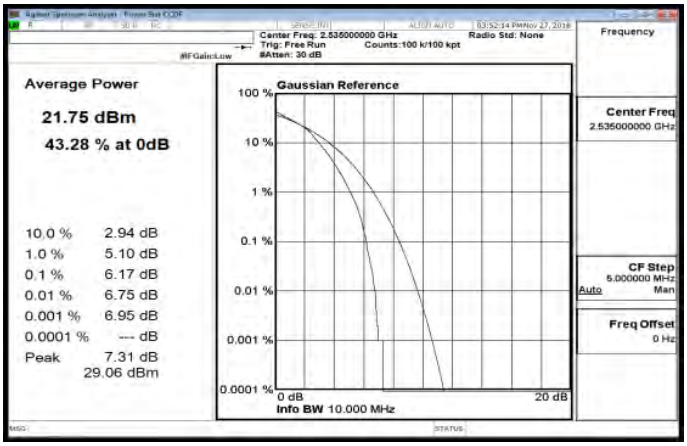
LTE_Band7_10MHz_64QAM_50_0_LowCH20800-2505



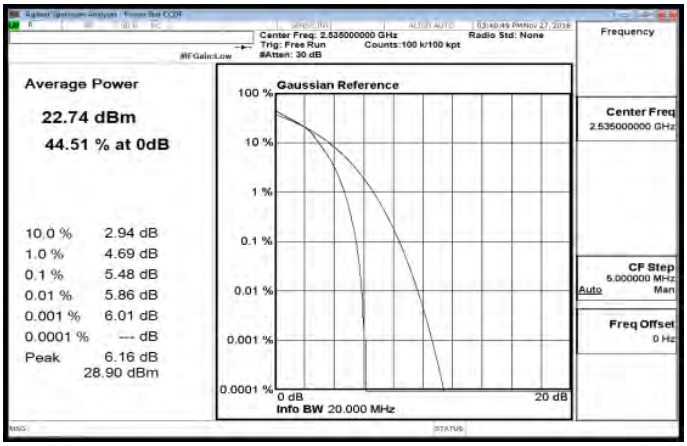
LTE_Band7_15MHz_64QAM_75_0_LowCH20825-2507.5



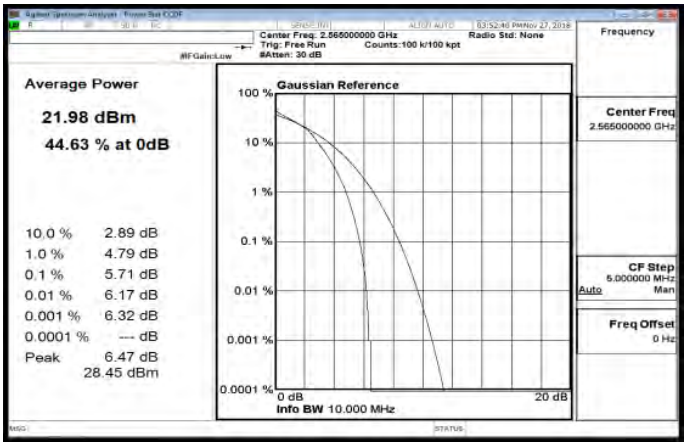
LTE_Band7_10MHz_64QAM_50_0_MidCH21100-2535



LTE_Band7_15MHz_64QAM_75_0_MidCH21100-2535



LTE_Band7_10MHz_64QAM_50_0_HighCH21400-2565



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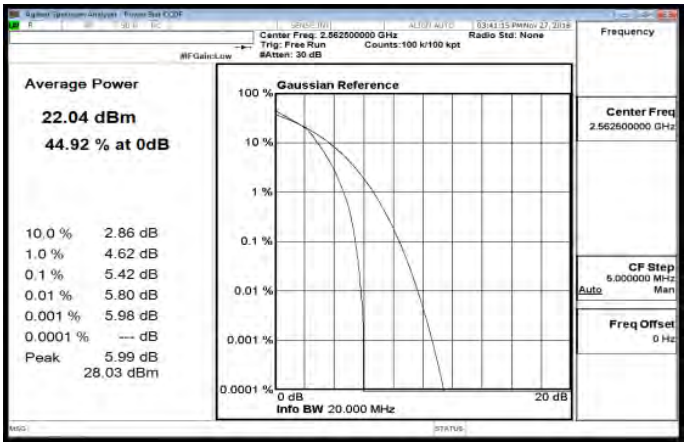

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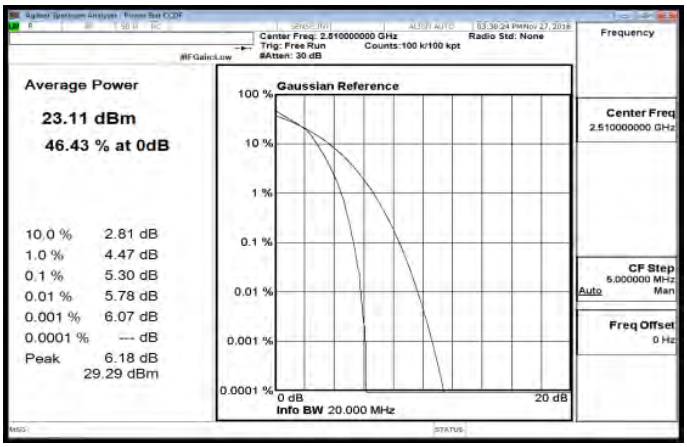
LTE_Band7_20MHz_64QAM_100_0_LowCH20850-2510



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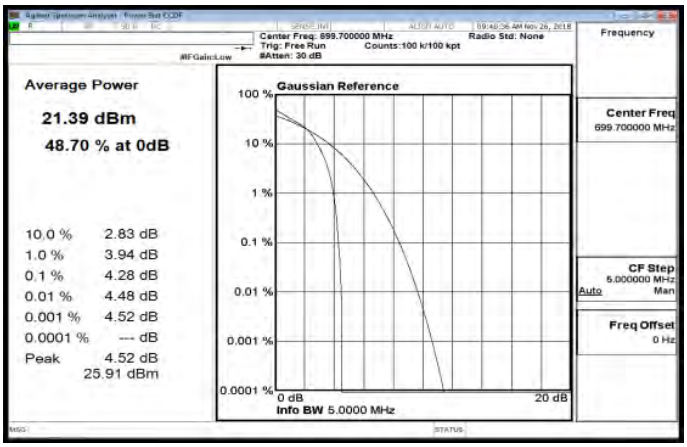
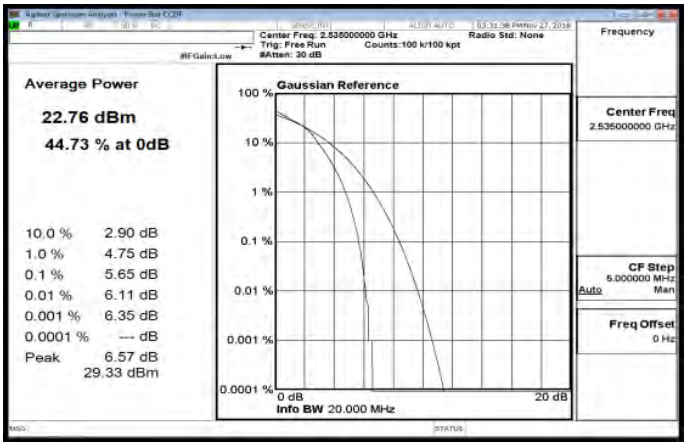


LTE_Band7_20MHz_64QAM_100_0_MidCH21100-2535



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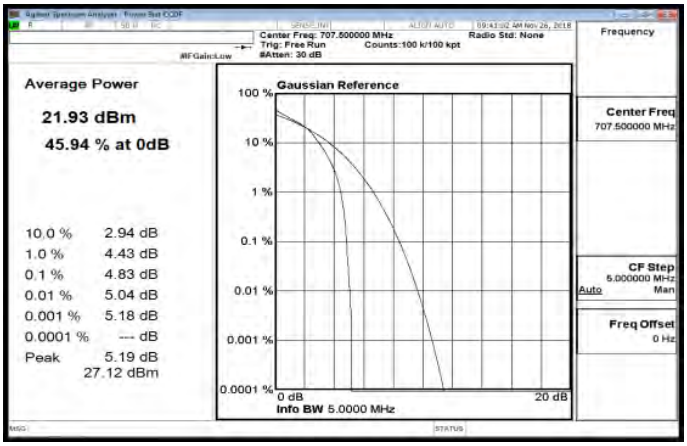
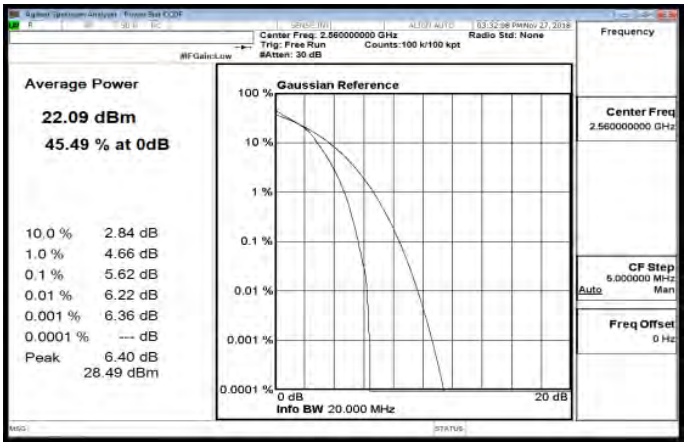


LTE_Band7_20MHz_64QAM_100_0_HighCH21350-2560



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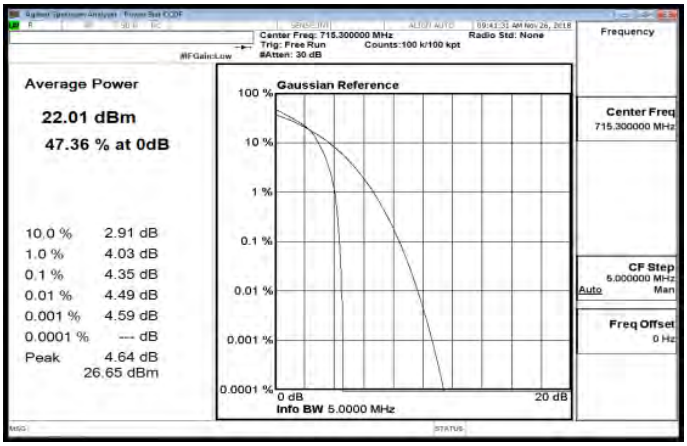

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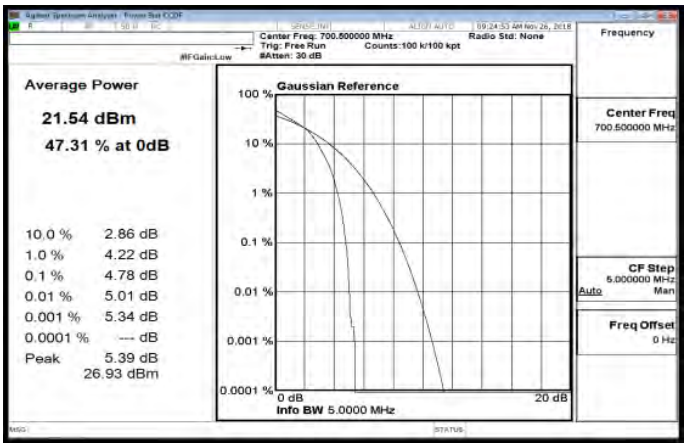
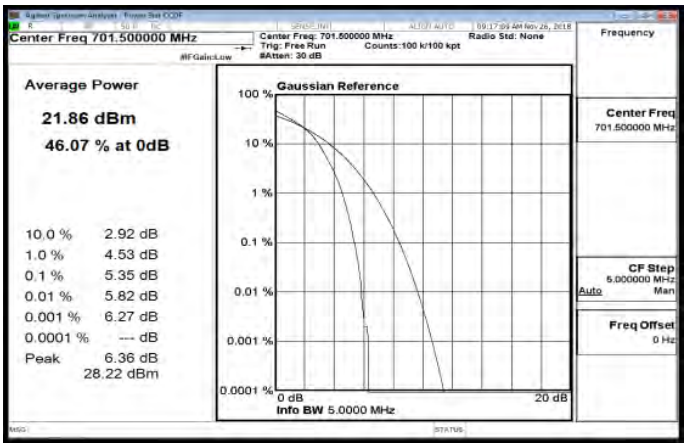
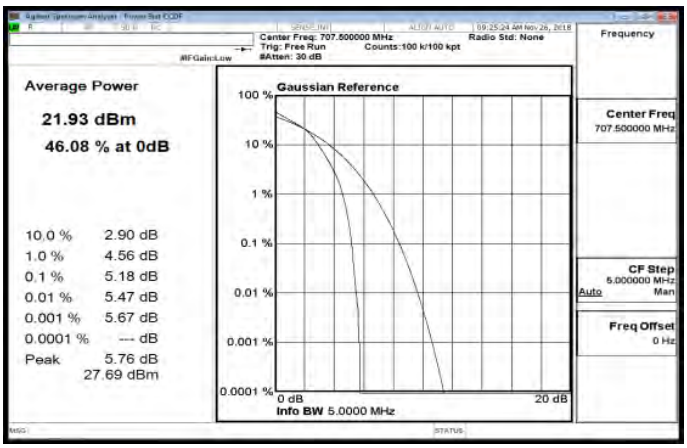
LTE_Band12_3MHz_64QAM_15_0_LowCH23025-700.5



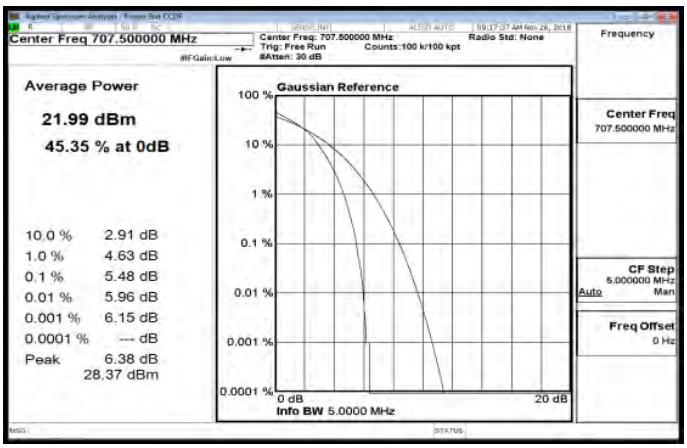
LTE_Band12_5MHz_64QAM_25_0_LowCH23035-701.5



LTE_Band12_3MHz_64QAM_15_0_MidCH23095-707.5



LTE_Band12_5MHz_64QAM_25_0_MidCH23095-707.5



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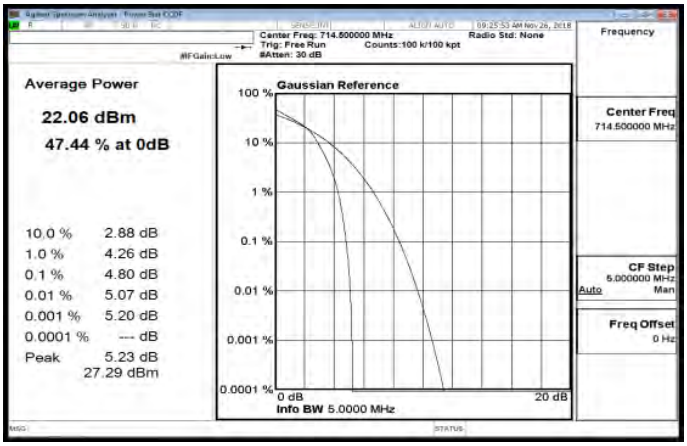
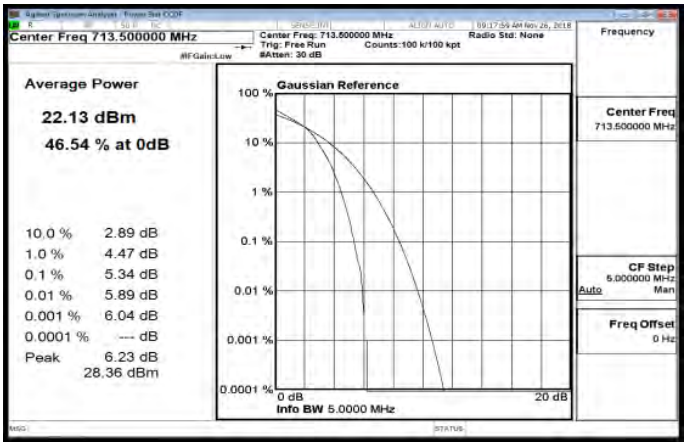


LTE_Band12_5MHz_64QAM_25_0_HighCH23155-713.5



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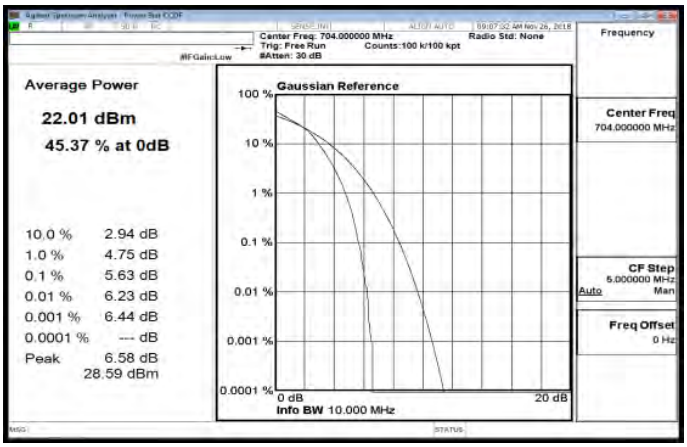
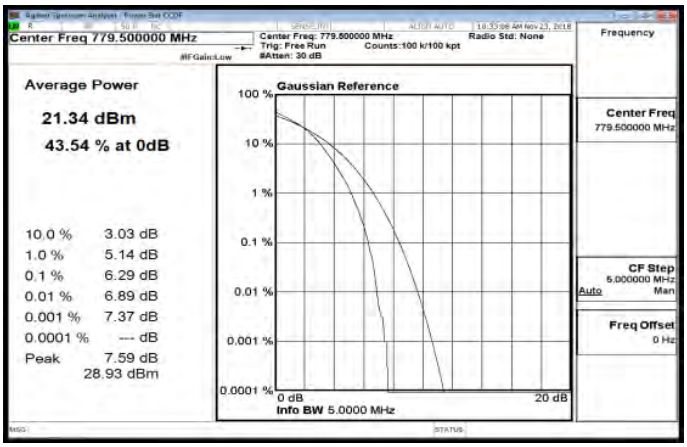
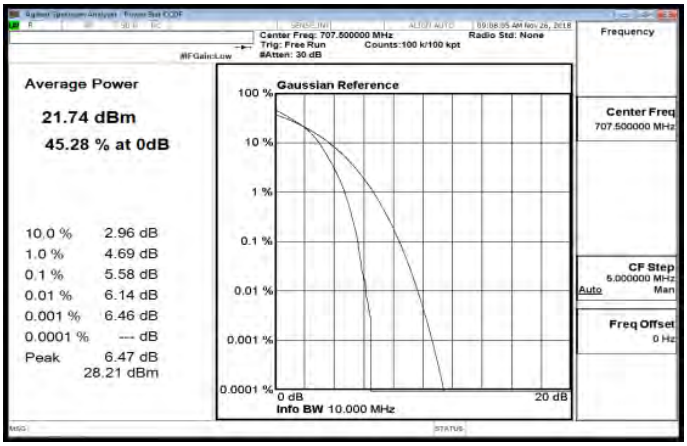
LTE_Band12_10MHz_64QAM_50_0_LowCH23060-704



LTE_Band13_5MHz_64QAM_25_0_LowCH23205-779.5



LTE_Band12_10MHz_64QAM_50_0_MidCH23095-707.5



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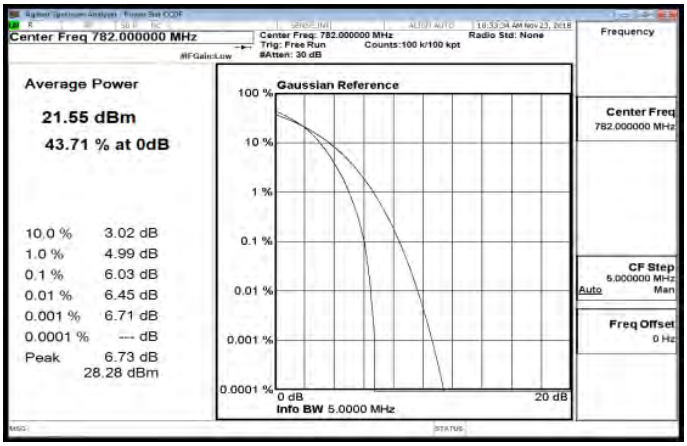

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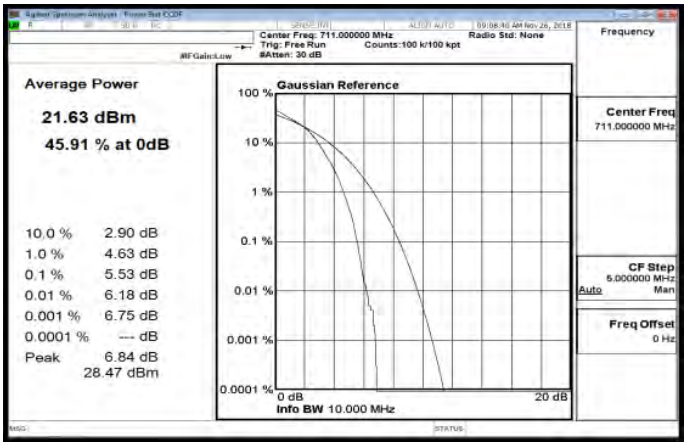

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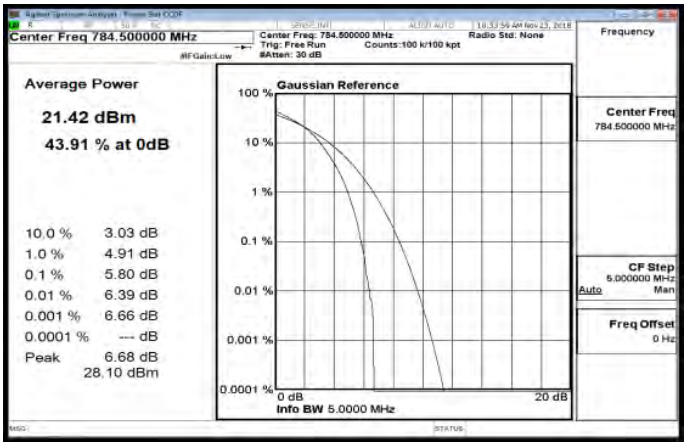

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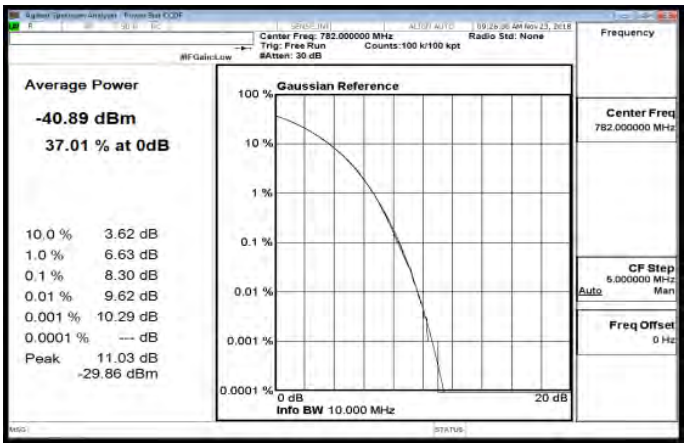
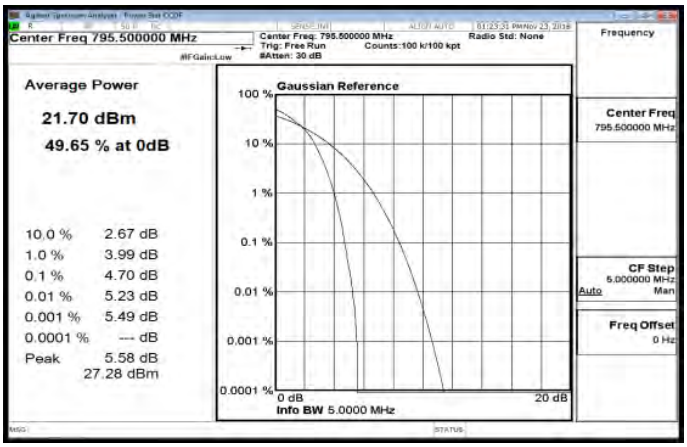
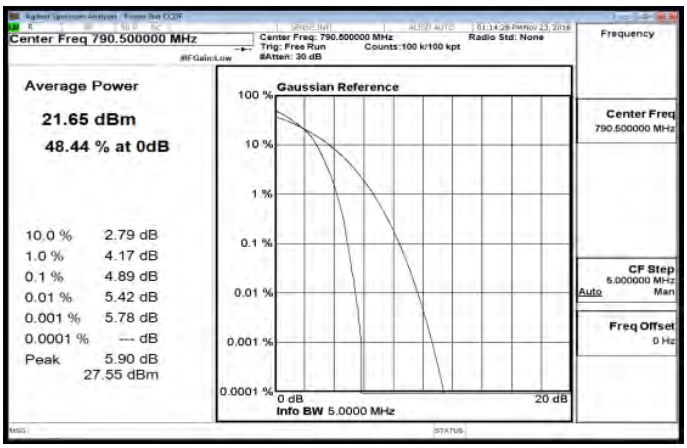
LTE_Band13_10MHz_64QAM_50_0_MidCH23230-782



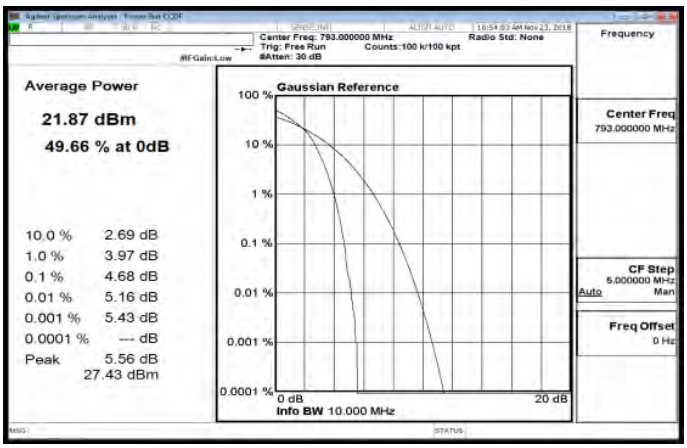
LTE_Band14_5MHz_64QAM_25_0_HighCH23355



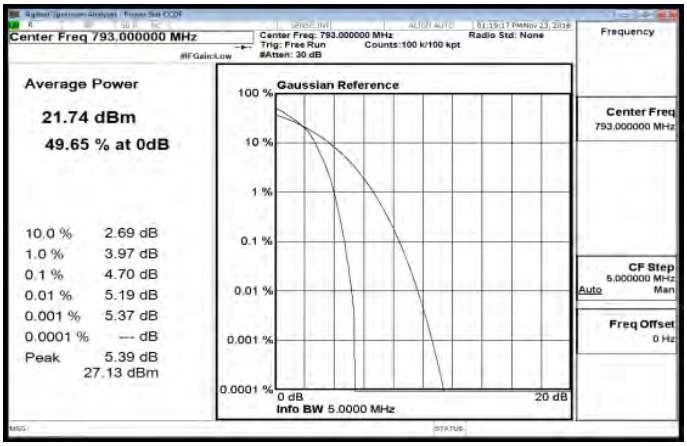
LTE_Band14_5MHz_64QAM_25_0_LowCH23305



LTE_Band14_10MHz_64QAM_50_0_MidCH23330



LTE_Band14_5MHz_64QAM_25_0_MidCH23330



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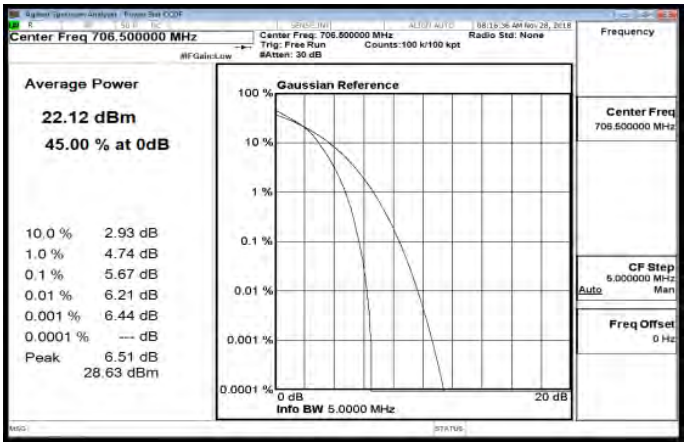

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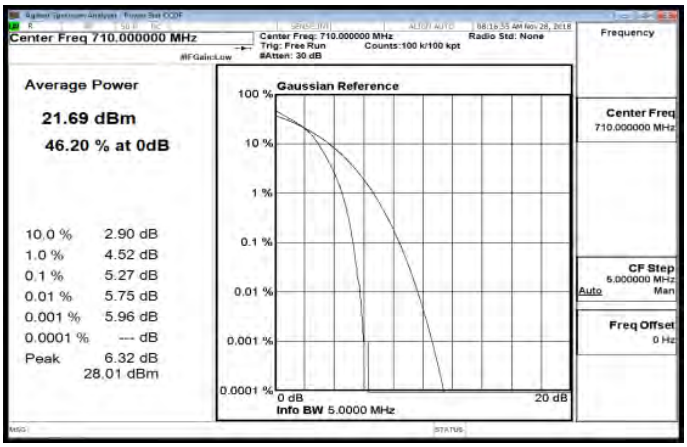
LTE_Band17_5MHz_64QAM_25_0_MidCH23790-710



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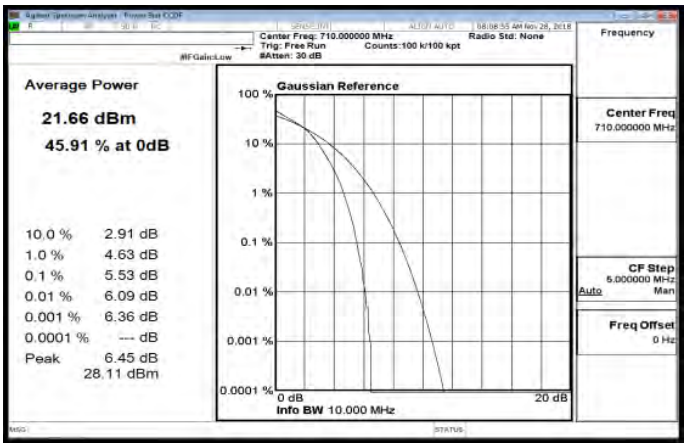
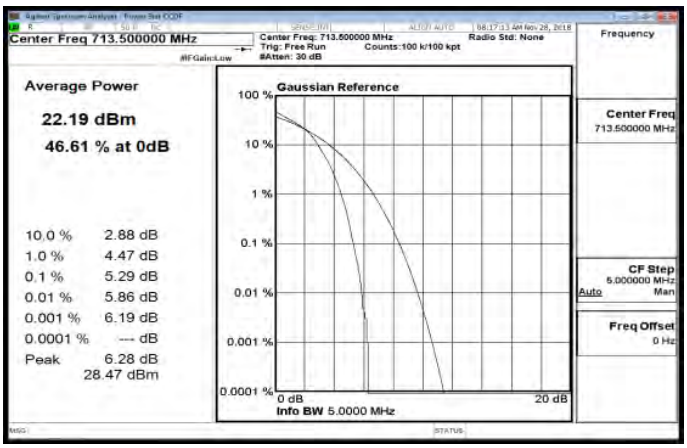
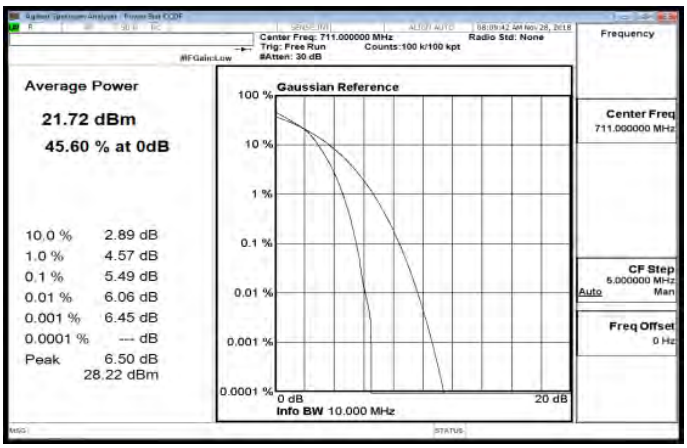


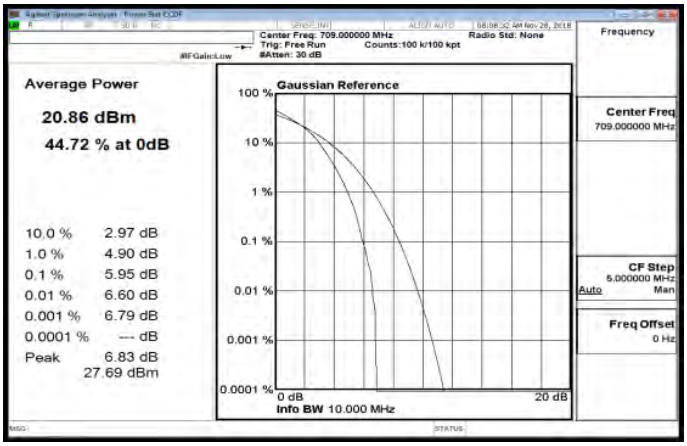
LTE_Band17_5MHz_64QAM_25_0_HighCH23825-713.5



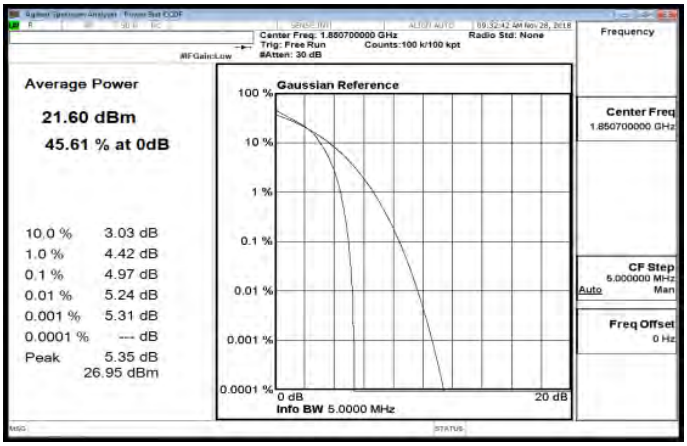
LTE_Band17_10MHz_64QAM_50_0_HighCH23800-711



LTE_Band17_10MHz_64QAM_50_0_LowCH23780-709



LTE_Band25_1_4MHz_64QAM_6_0_LowCH26047-1850.7



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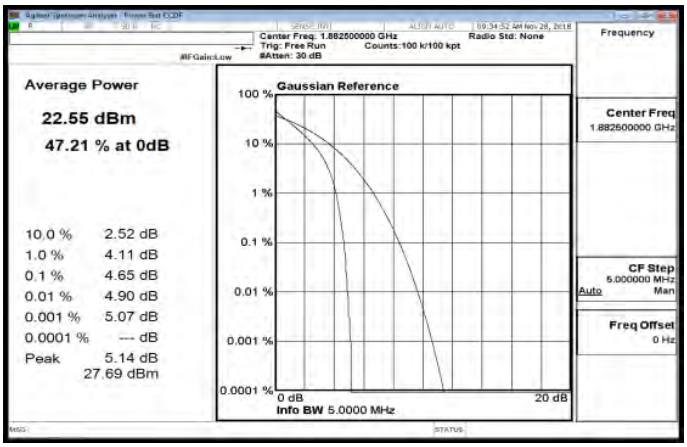
LTE_Band25_1_4MHz_64QAM_6_0_MidCH26365-1882.5



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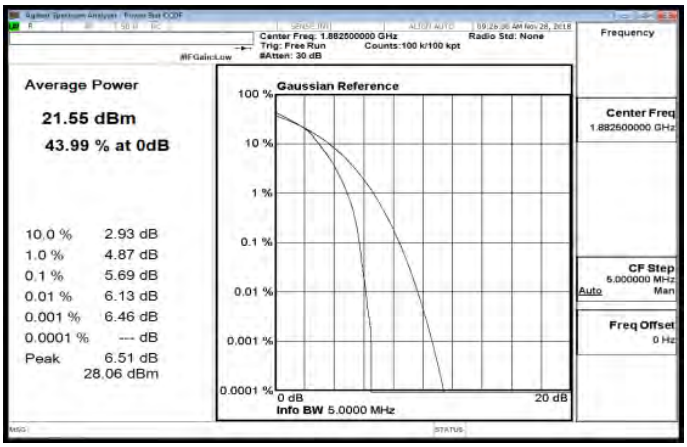

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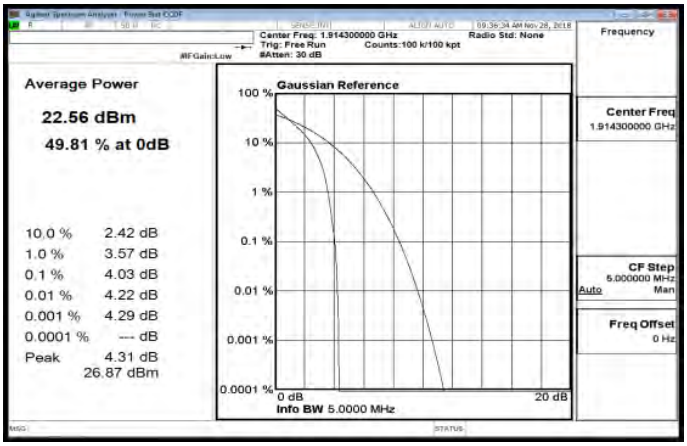
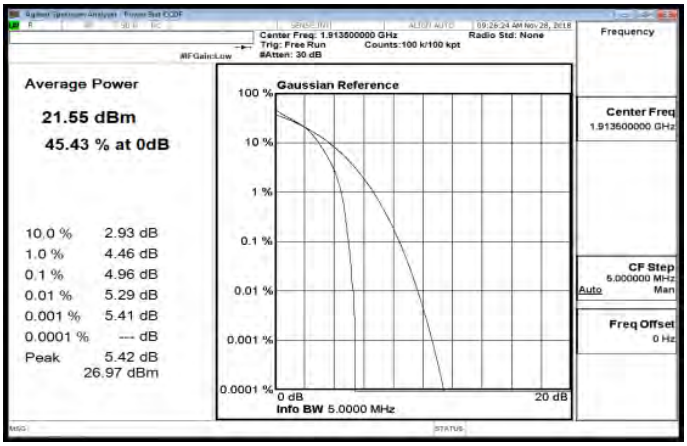
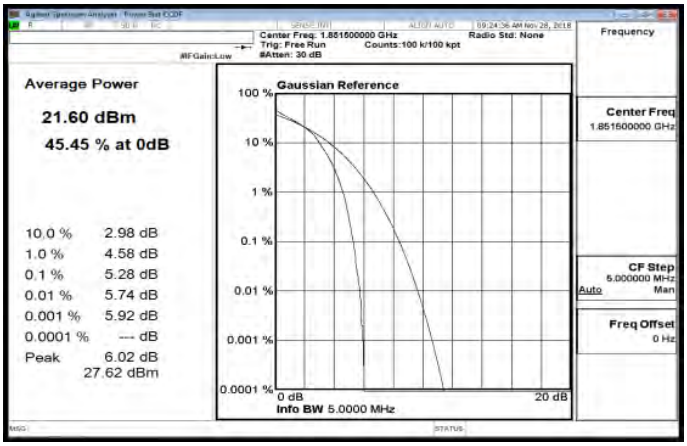


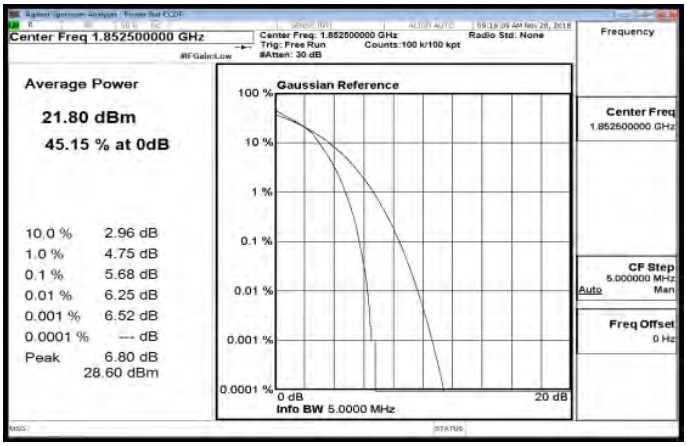
LTE_Band25_3MHz_64QAM_15_0_HighCH26675-1913.5



LTE_Band25_3MHz_64QAM_15_0_LowCH26055-1851.5



LTE_Band25_5MHz_64QAM_25_0_LowCH26065-1852.5



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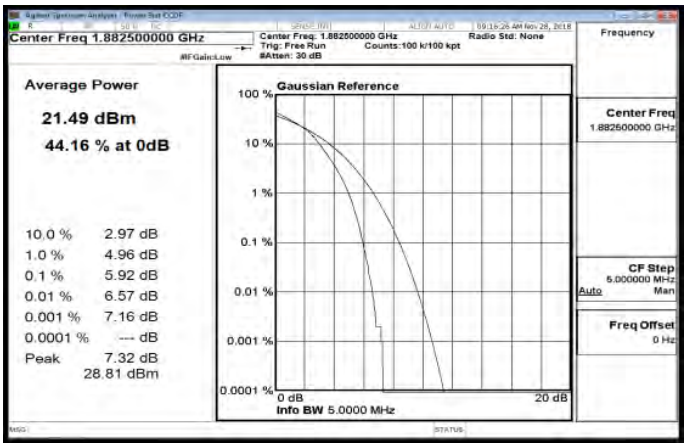
LTE_Band25_5MHz_64QAM_25_0_MidCH26365-1882.5



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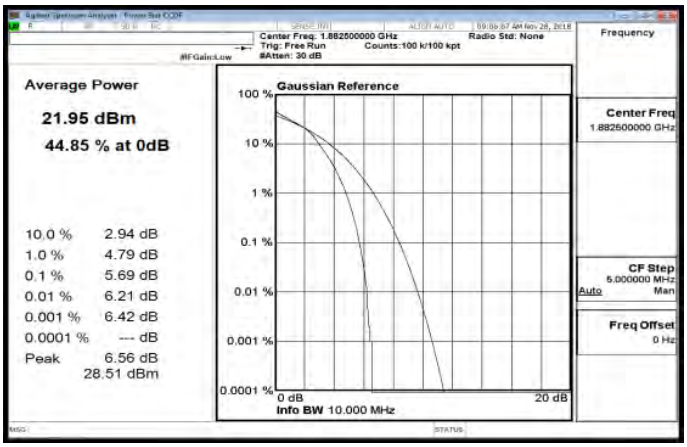
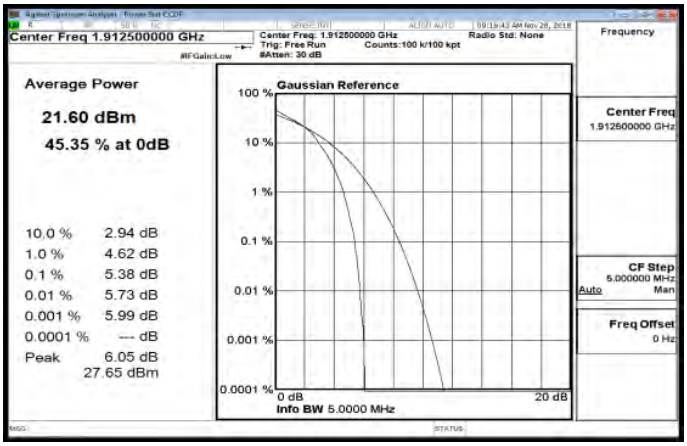


LTE_Band25_5MHz_64QAM_25_0_HighCH26665-1912.5



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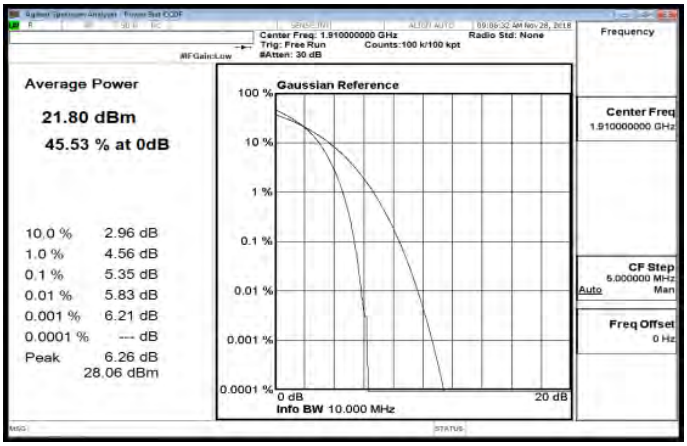

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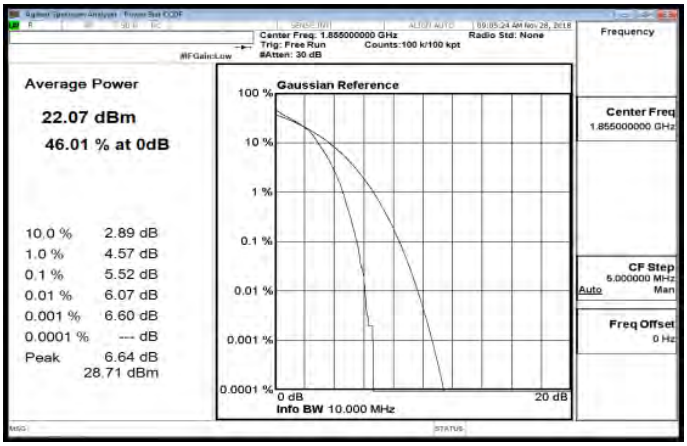

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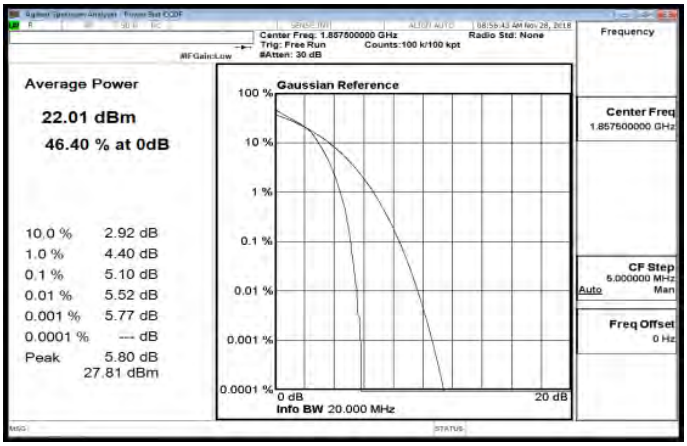

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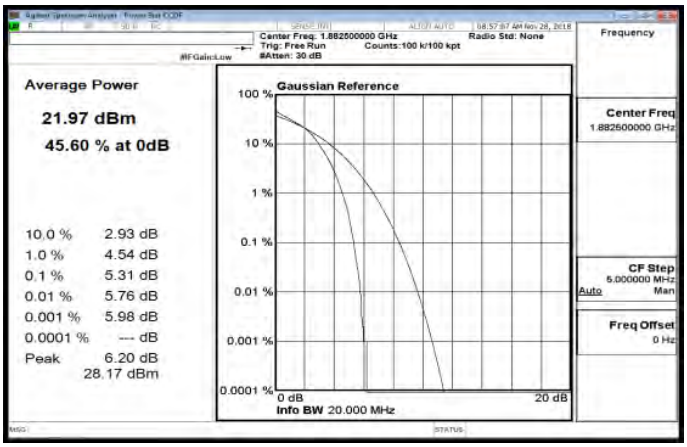
LTE_Band25_15MHz_64QAM_75_0_MidCH26365-1882.5



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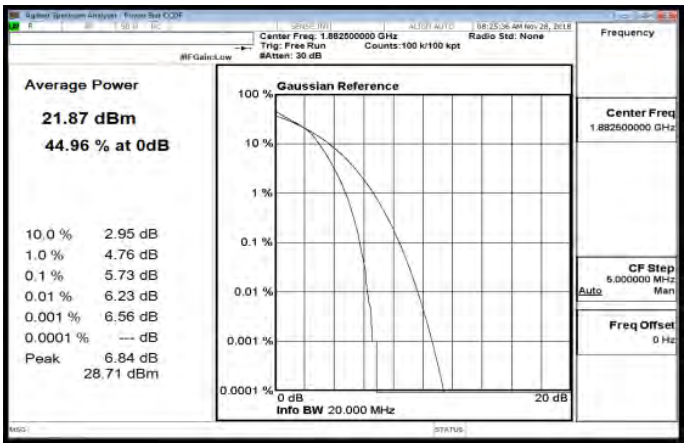

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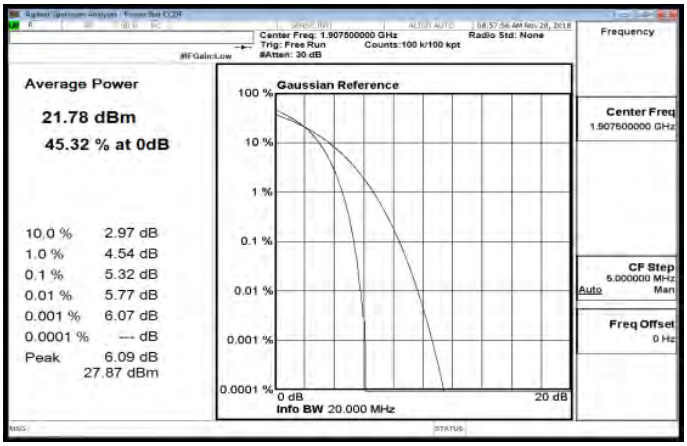

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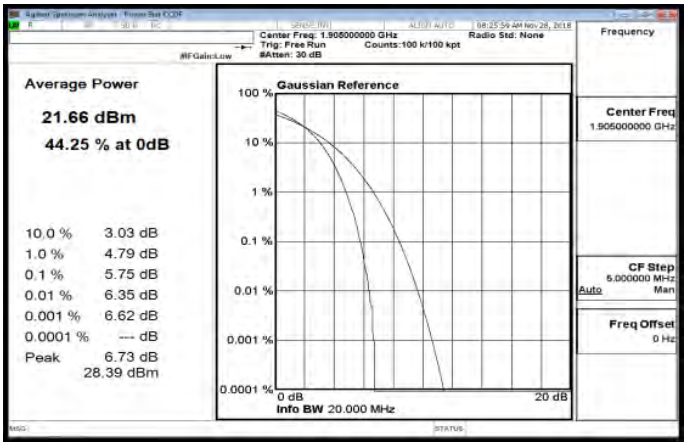

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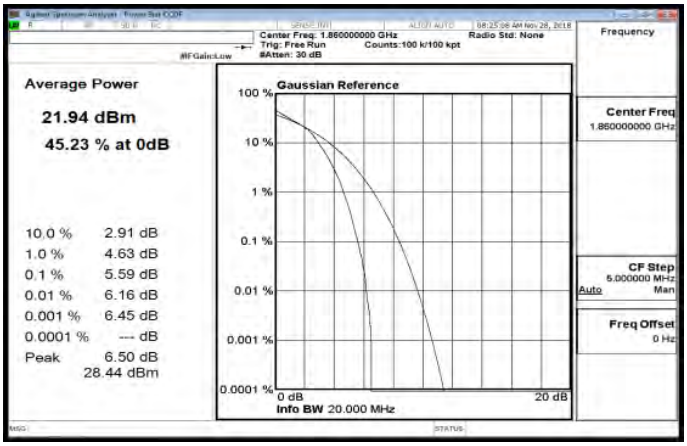

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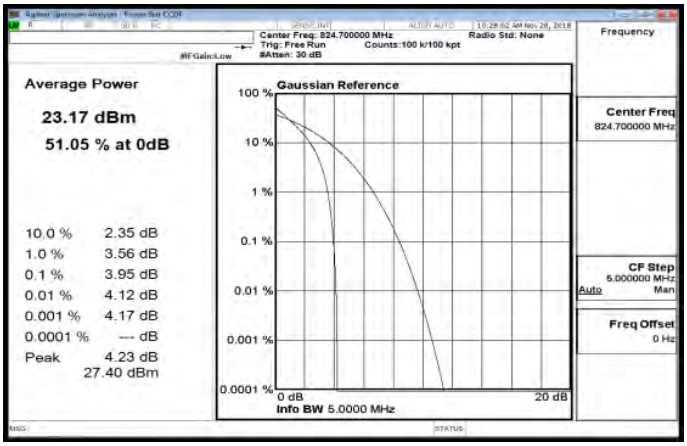

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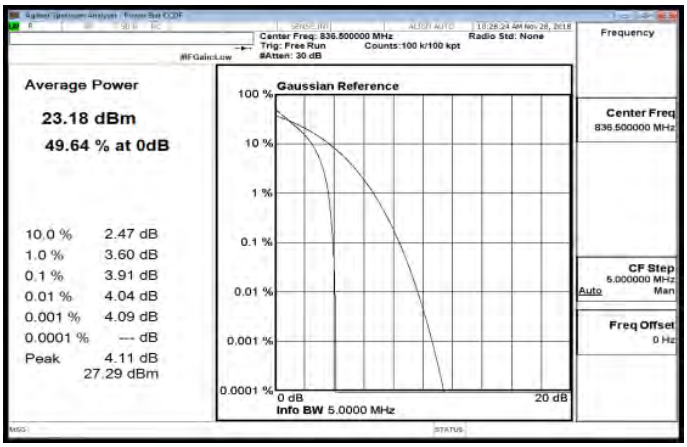
LTE_Band26_1_4MHz_64QAM_6_0_MidCH26915-836.5



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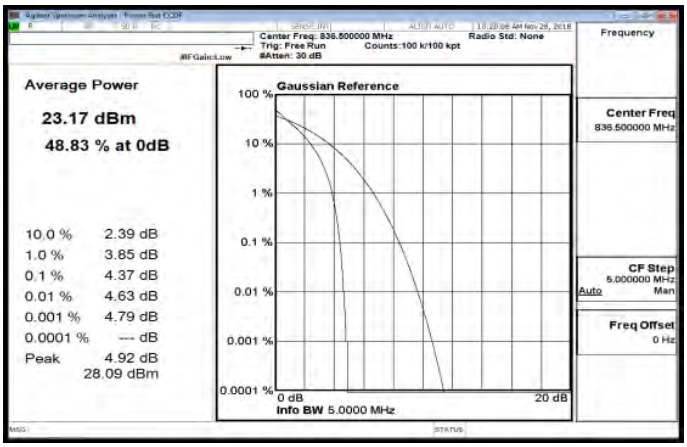

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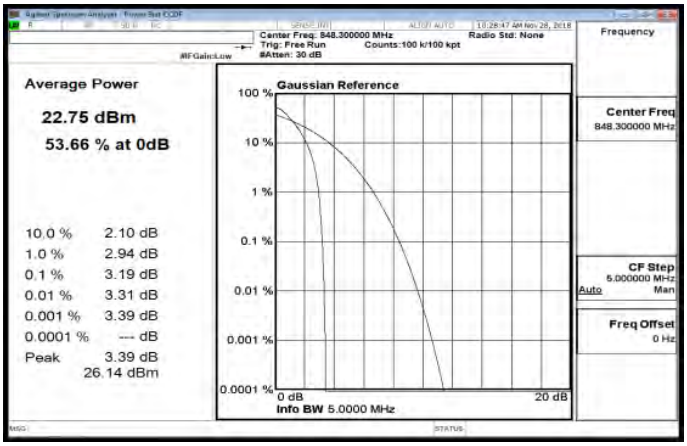

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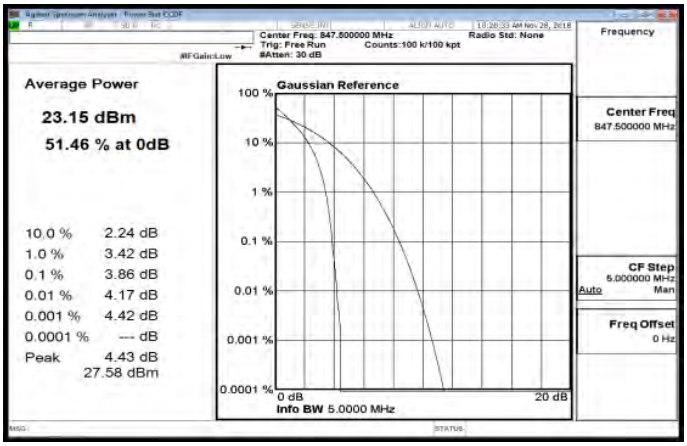

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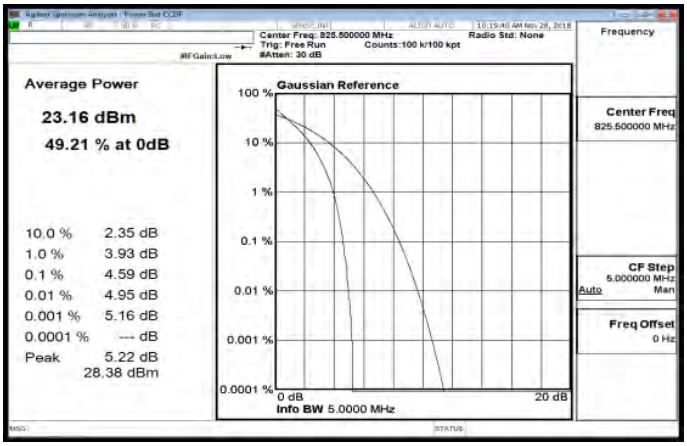
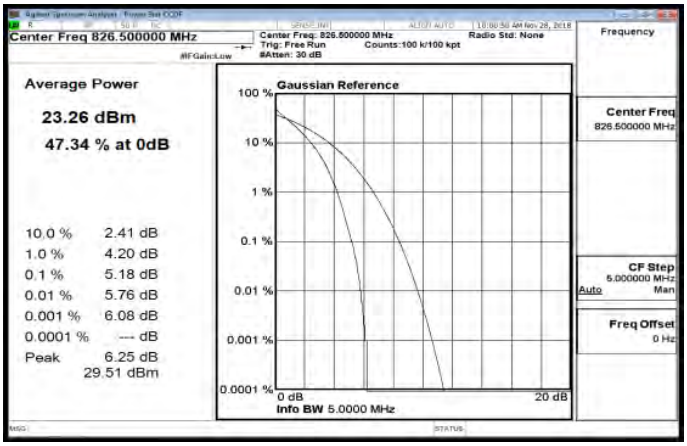


LTE_Band26_5MHz_64QAM_25_0_LowCH26815-826.5



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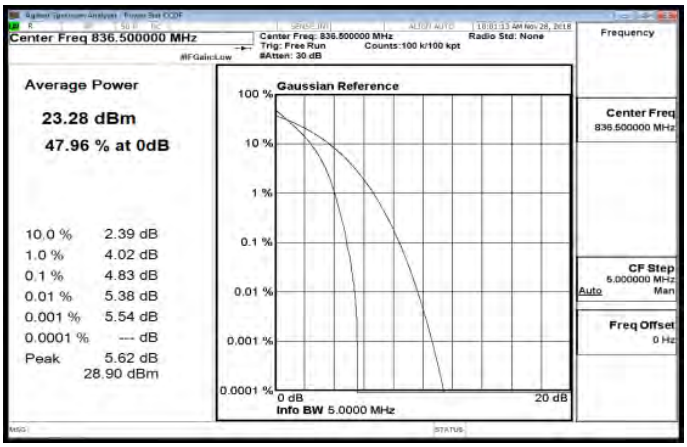
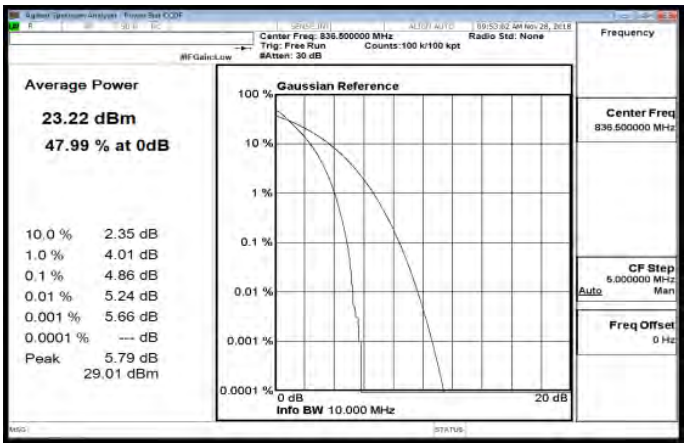
LTE_Band26_5MHz_64QAM_25_0_MidCH26915-836.5



LTE_Band26_10MHz_64QAM_50_0_MidCH26915-836.5



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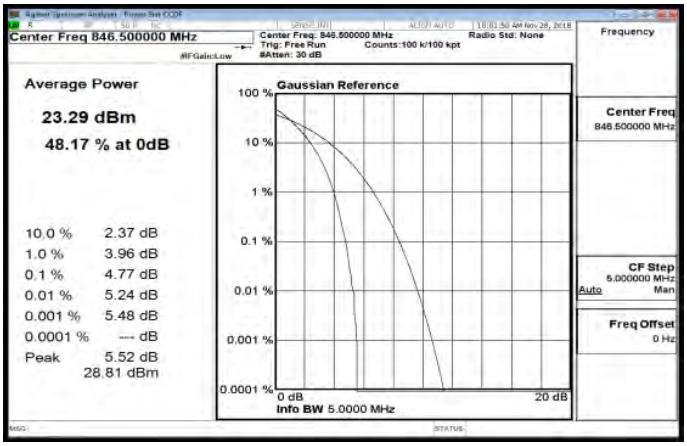

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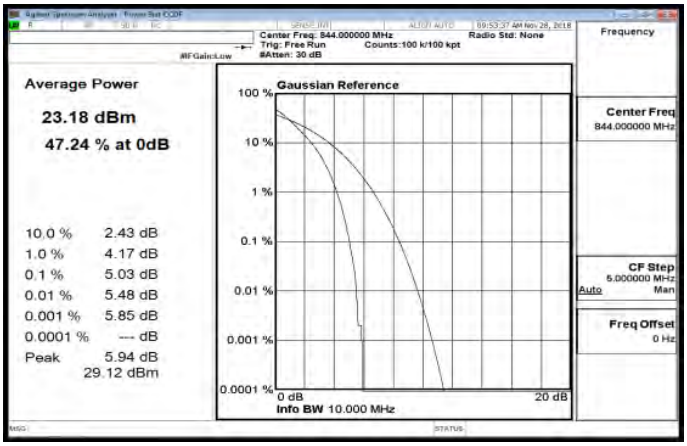

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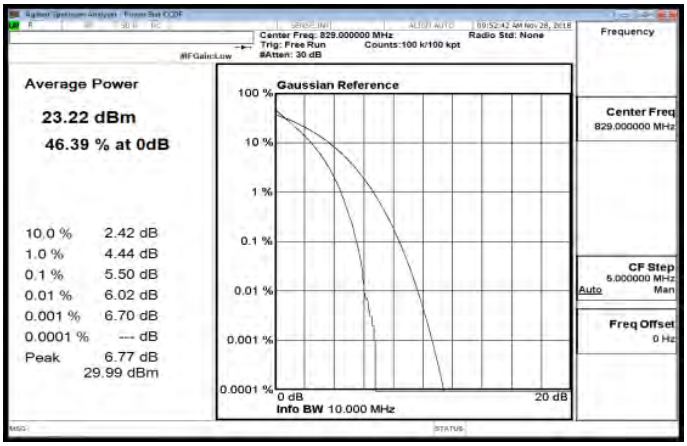

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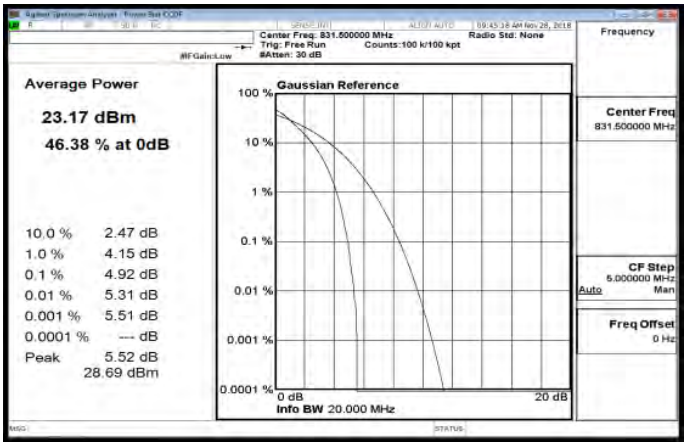

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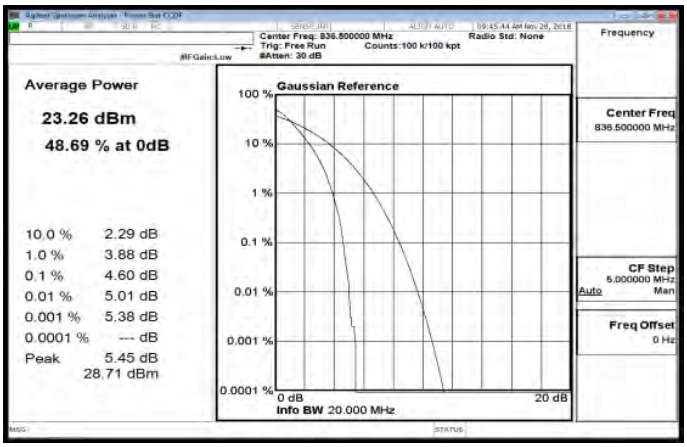
LTE_Band26_15MHz_64QAM_75_0_MidCH26915-836.5



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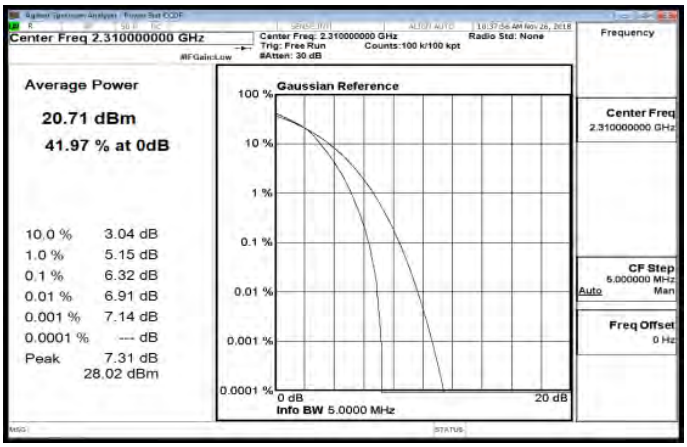

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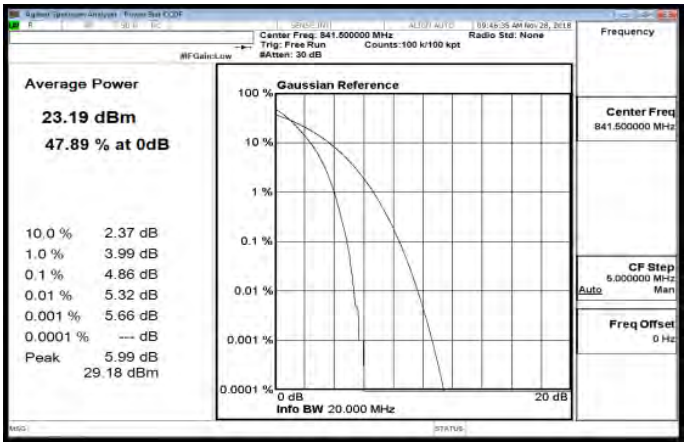

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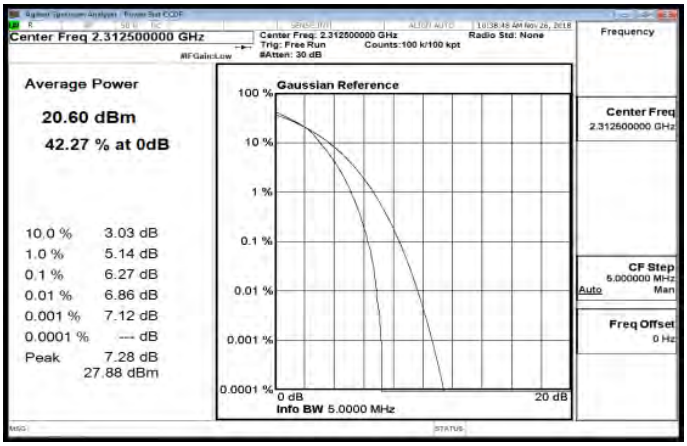

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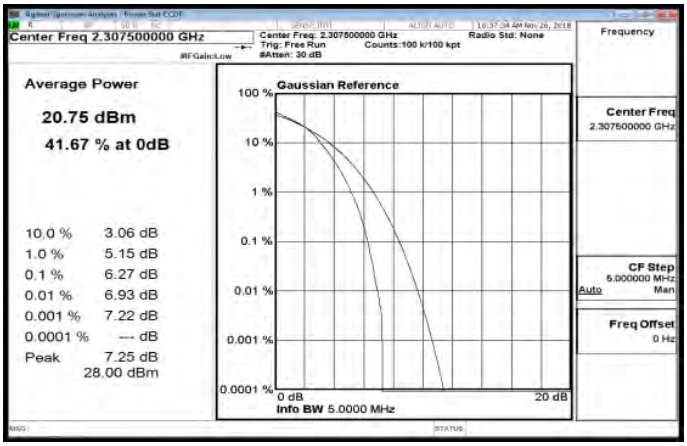
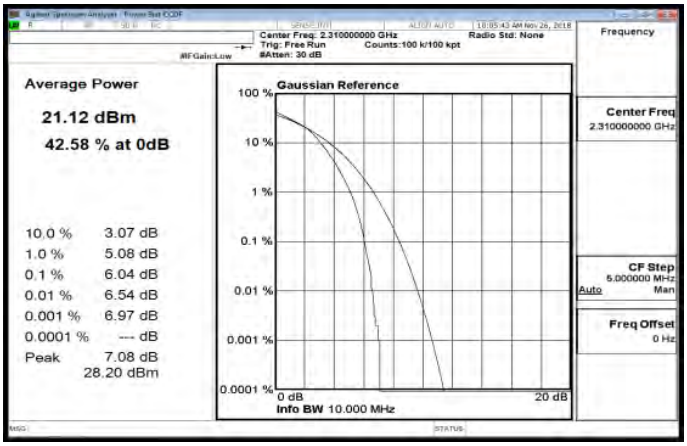


LTE_Band30_10MHz_64QAM_50_0_MidCH27710-2310



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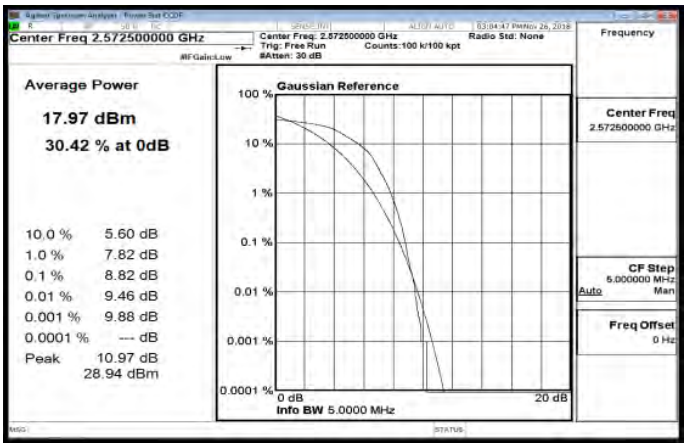
LTE_Band38_5MHz_64QAM_25_0_LowCH37775-2572.5



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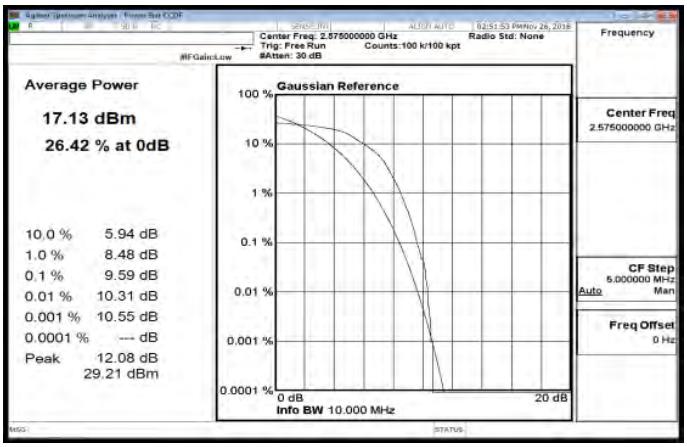

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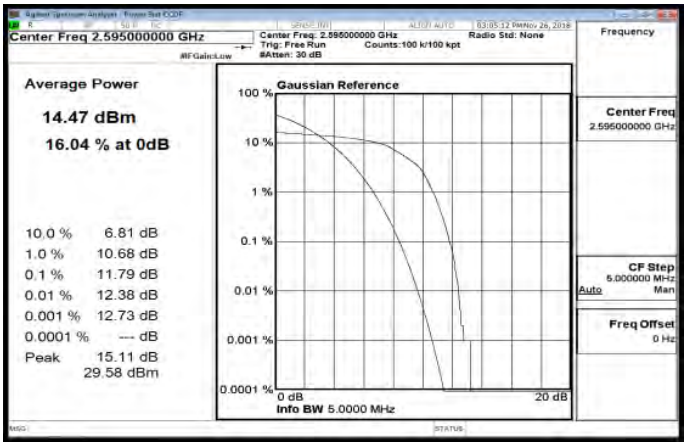

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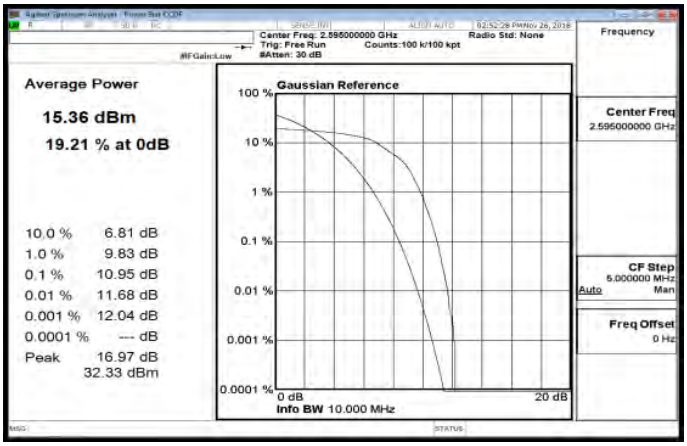

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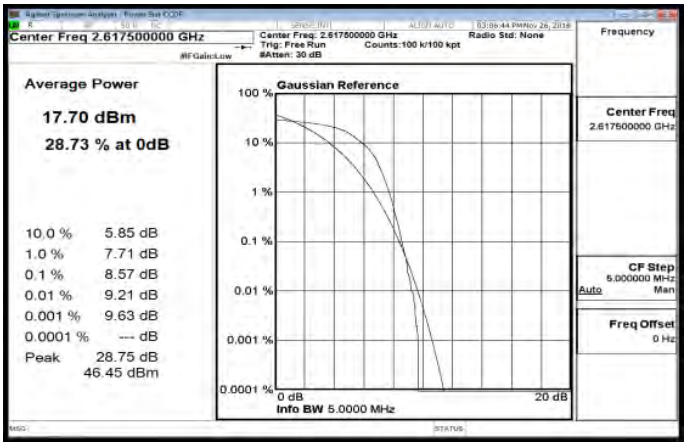

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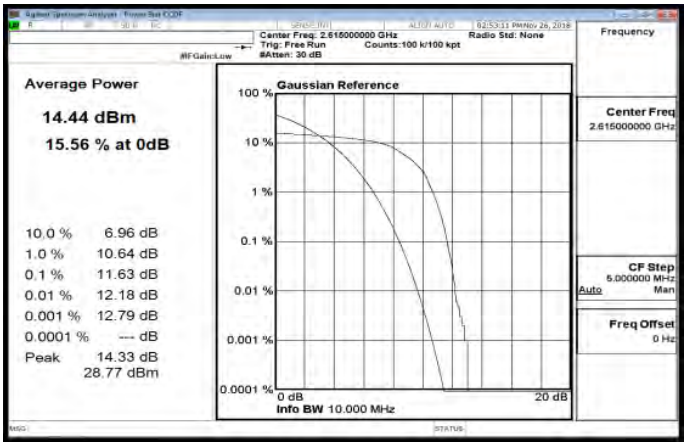

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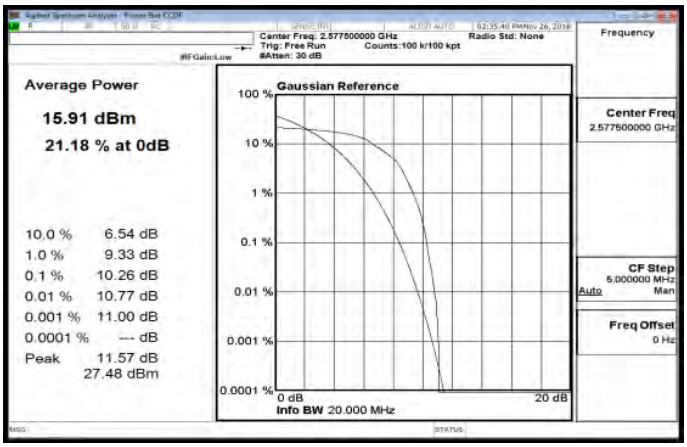
LTE_Band38_15MHz_64QAM_75_0_LowCH37825-2577.5



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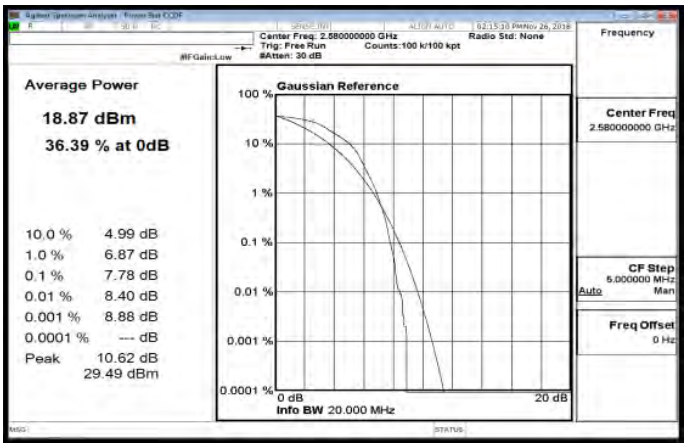
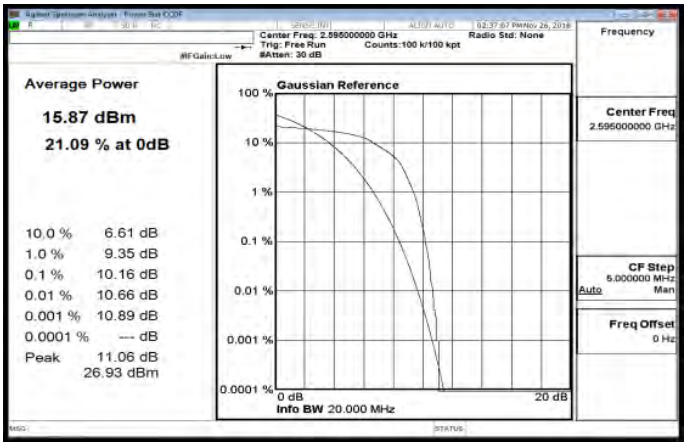


LTE_Band38_15MHz_64QAM_75_0_MidCH38000-2595



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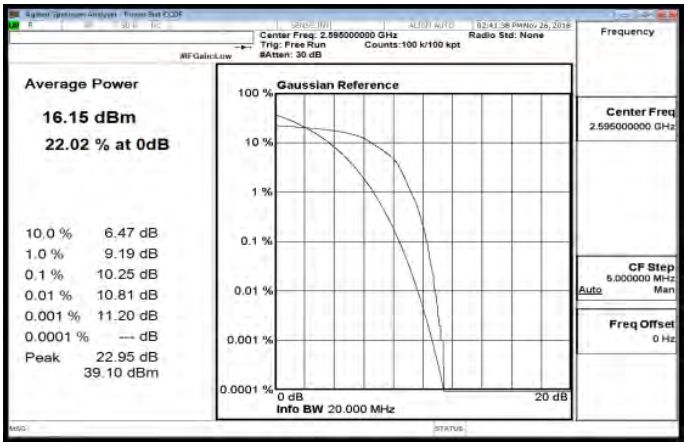

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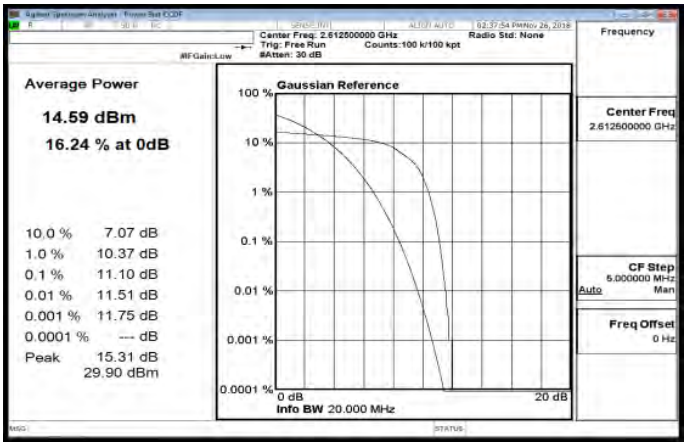

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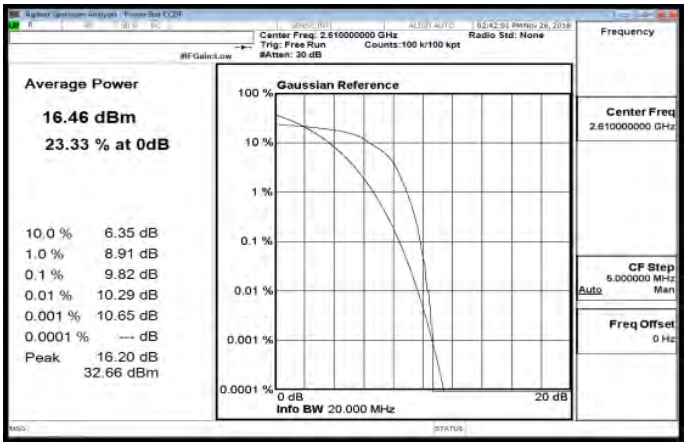

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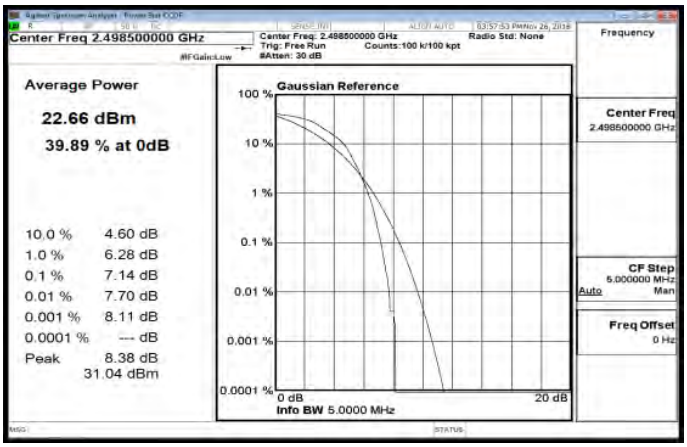
LTE_Band41_5MHz_64QAM_25_0_LowCH39675-2498.5



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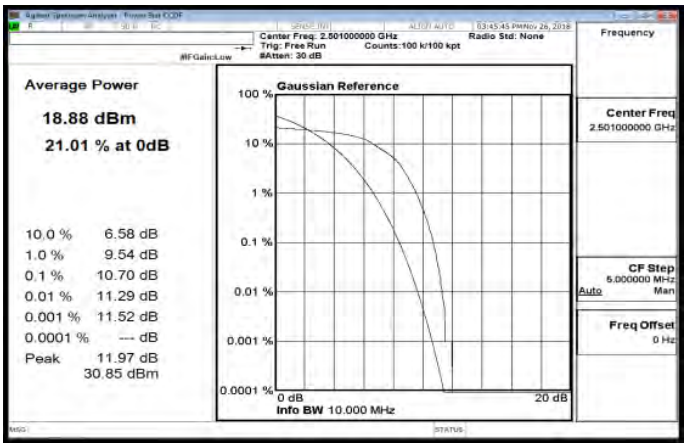
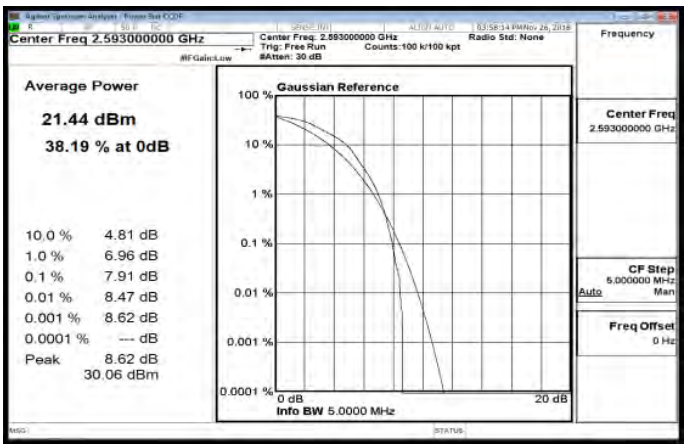
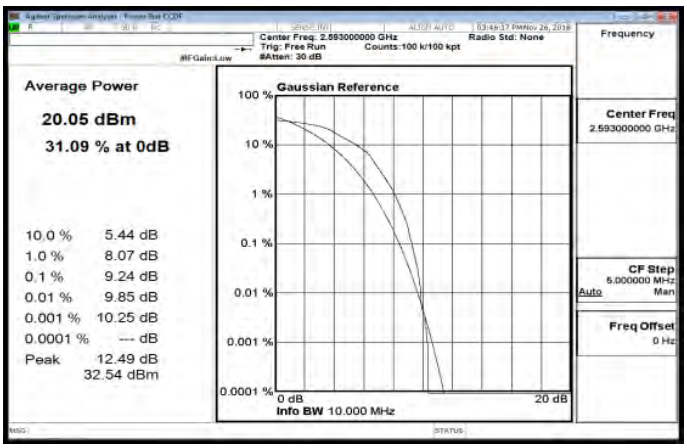


LTE_Band41_5MHz_64QAM_25_0_MidCH40620-2593



LTE_Band41_10MHz_64QAM_50_0_MidCH40620-2593



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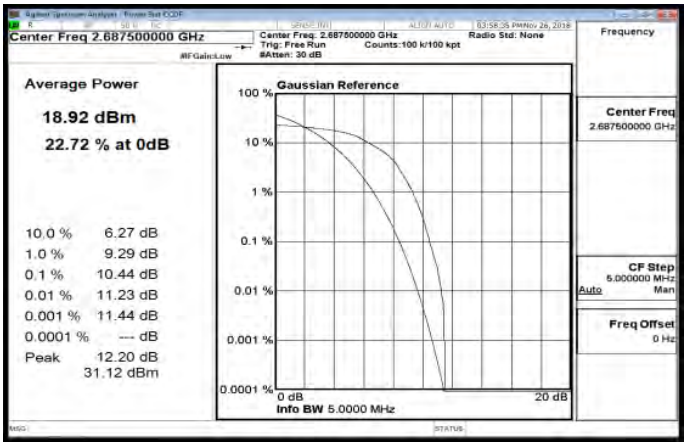

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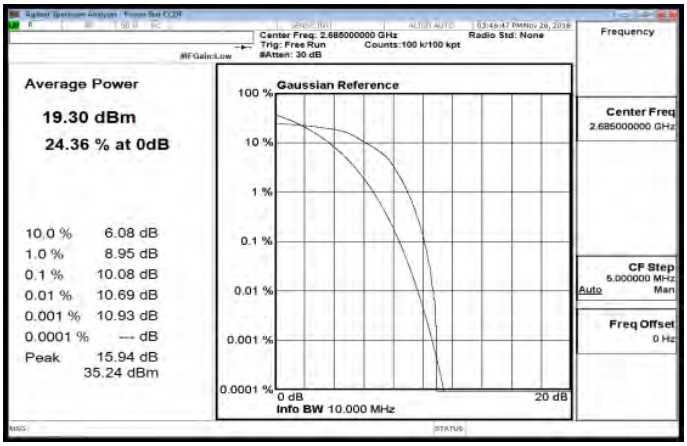

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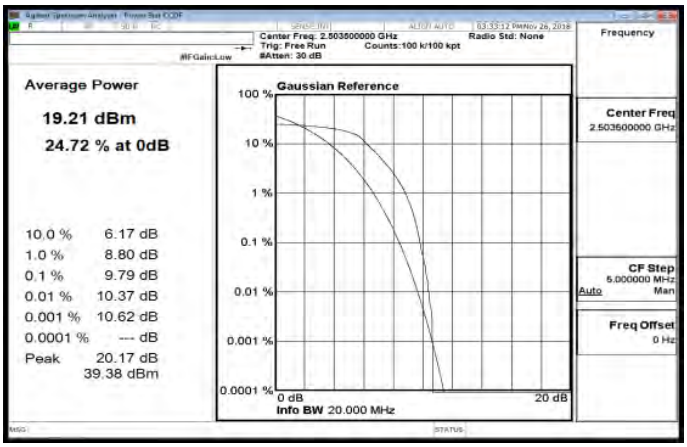
LTE_Band41_15MHz_64QAM_75_0_LowCH39725-2503.5



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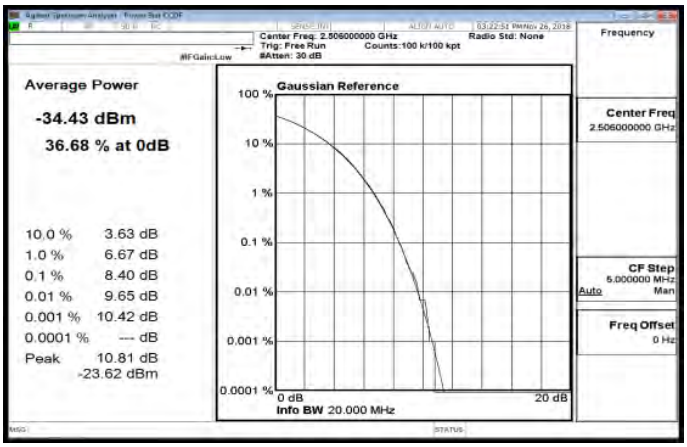
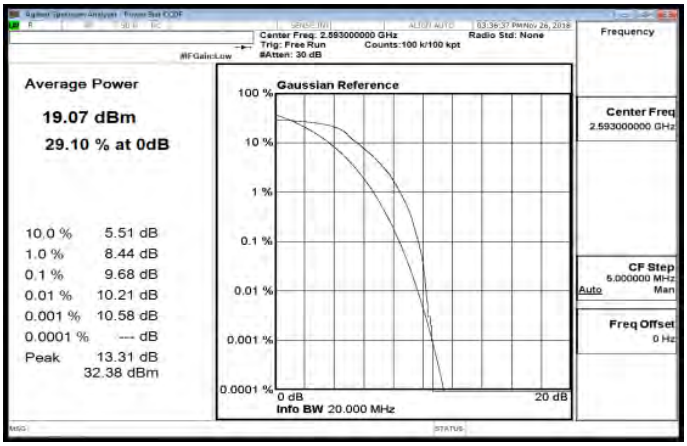


LTE_Band41_15MHz_64QAM_75_0_MidCH40620-2593



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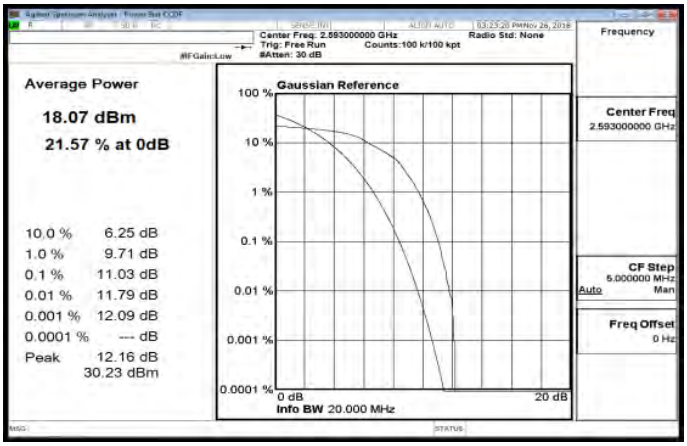

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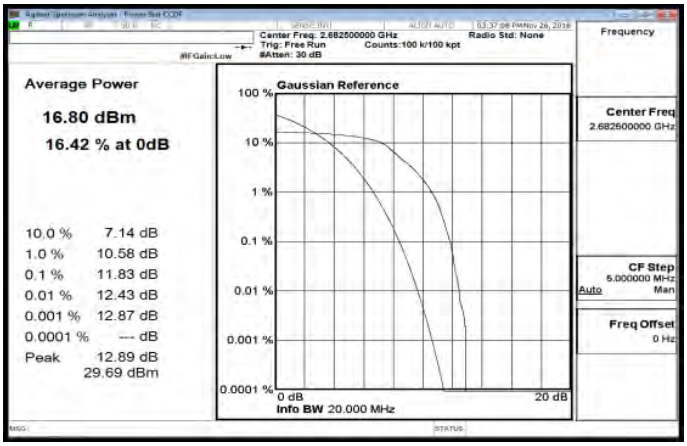

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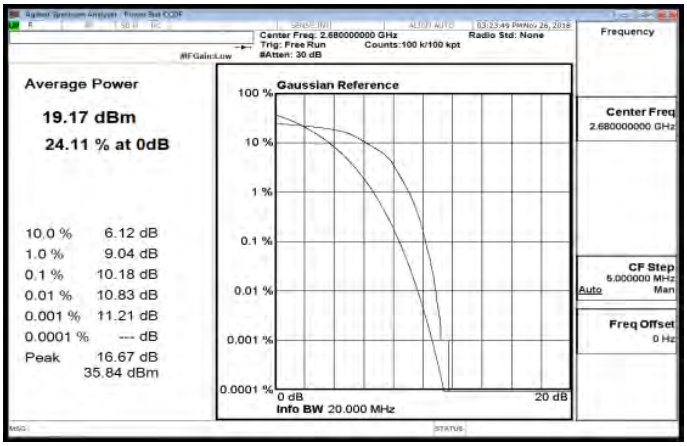

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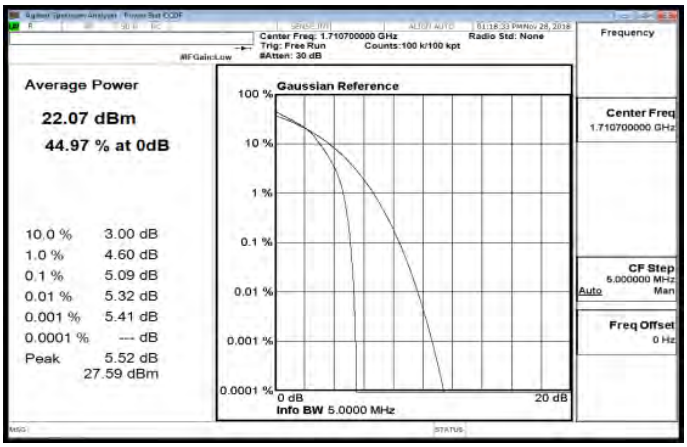
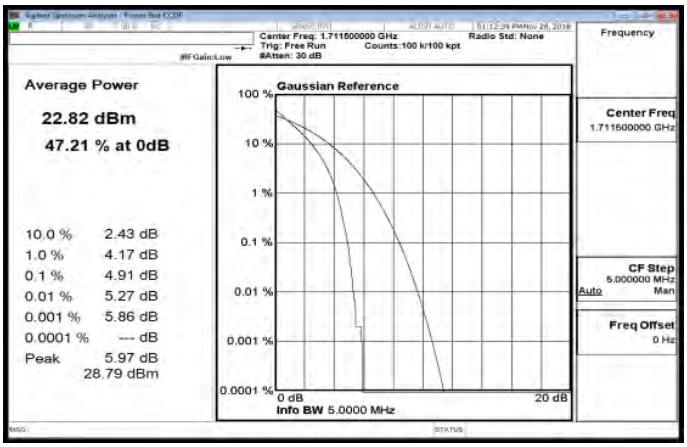
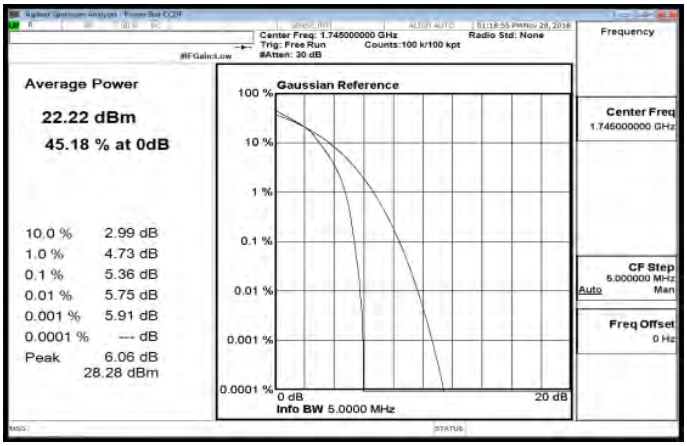
LTE_Band66_1_4MHz_64QAM_6_0_LowCH131979-1710.7



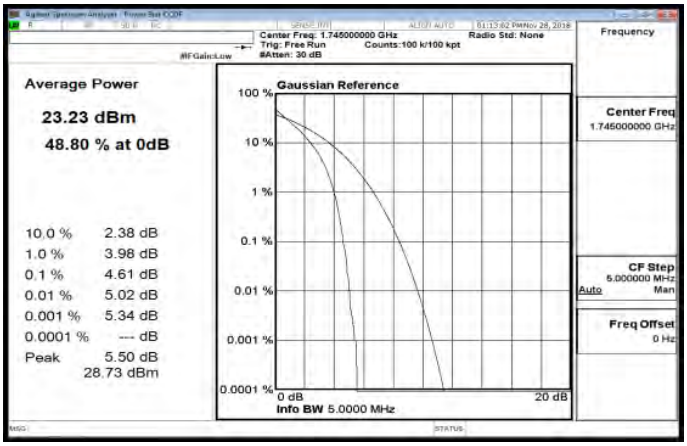
LTE_Band66_3MHz_64QAM_15_0_LowCH131987-1711.5



LTE_Band66_1_4MHz_64QAM_6_0_MidCH132322-1745



LTE_Band66_3MHz_64QAM_15_0_MidCH132322-1745



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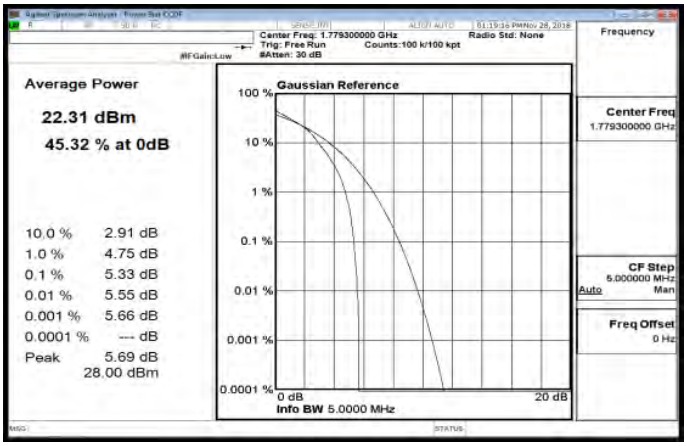
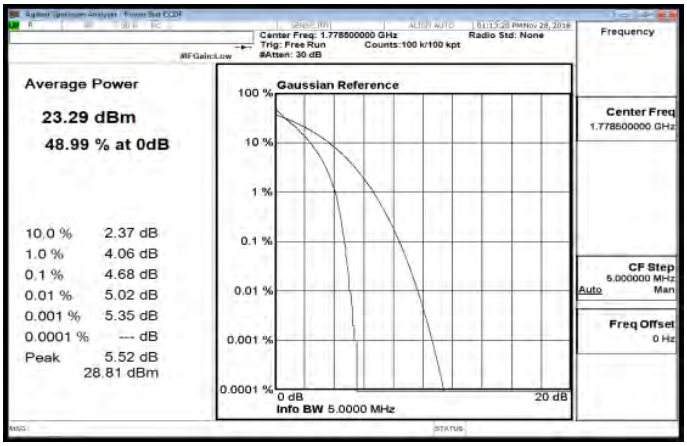


LTE_Band66_3MHz_64QAM_15_0_HighCH132657-1778.5



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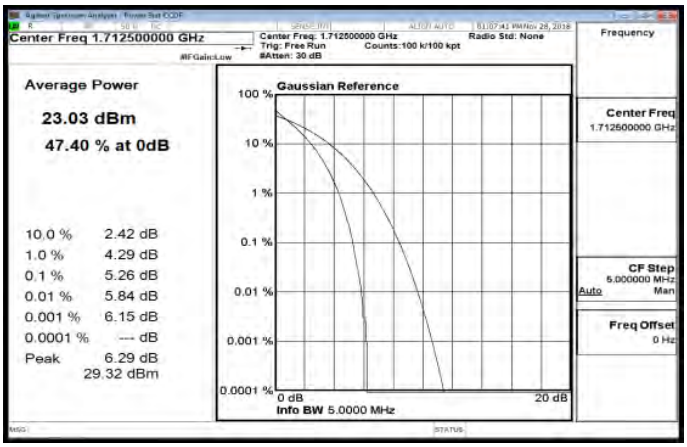
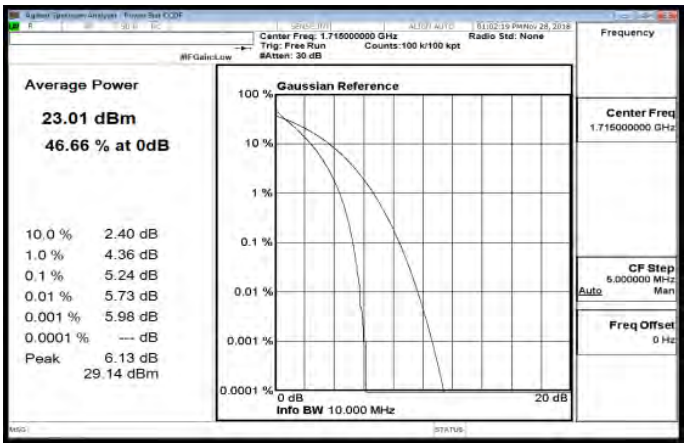
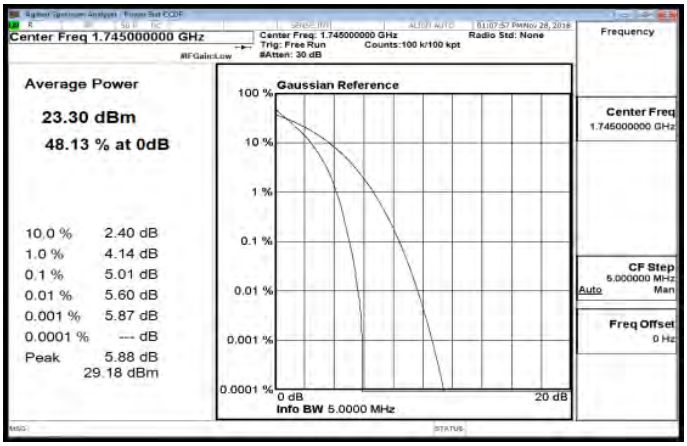
LTE_Band66_5MHz_64QAM_25_0_LowCH131997-1712.5



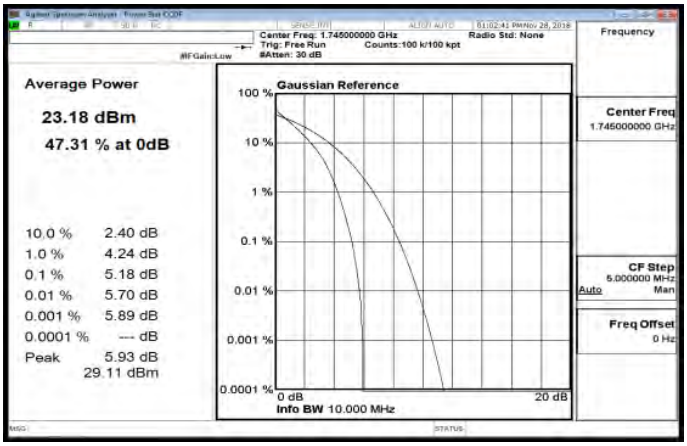
LTE_Band66_10MHz_64QAM_50_0_LowCH132022-1715



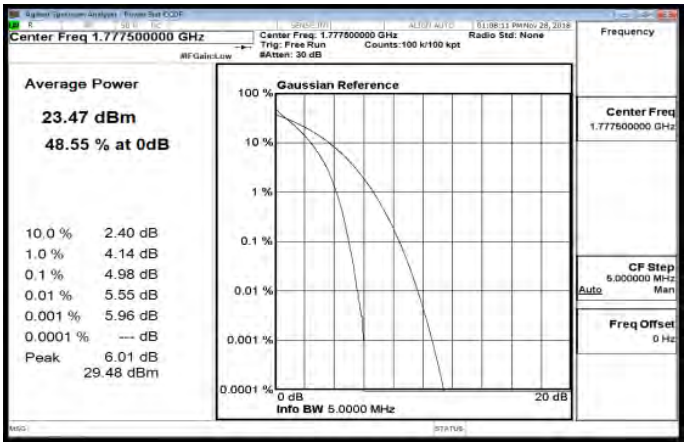
LTE_Band66_5MHz_64QAM_25_0_MidCH132322-1745



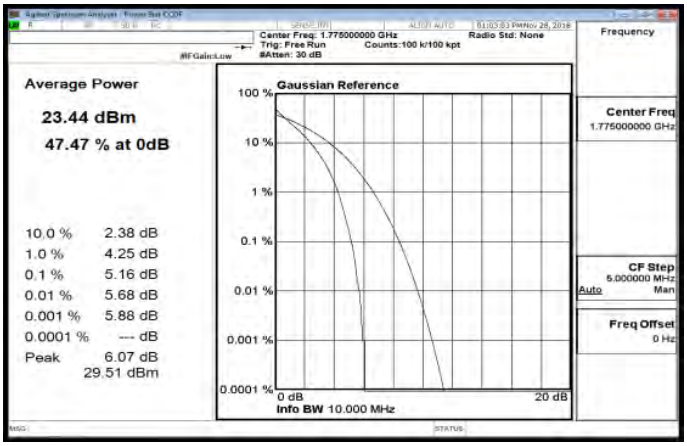
LTE_Band66_10MHz_64QAM_50_0_MidCH132322-1745



LTE_Band66_5MHz_64QAM_25_0_HighCH132647-1777.5



LTE_Band66_10MHz_64QAM_50_0_HighCH132622-1775



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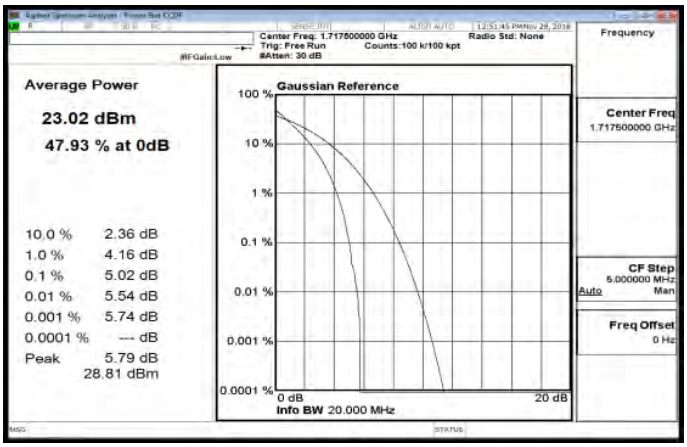
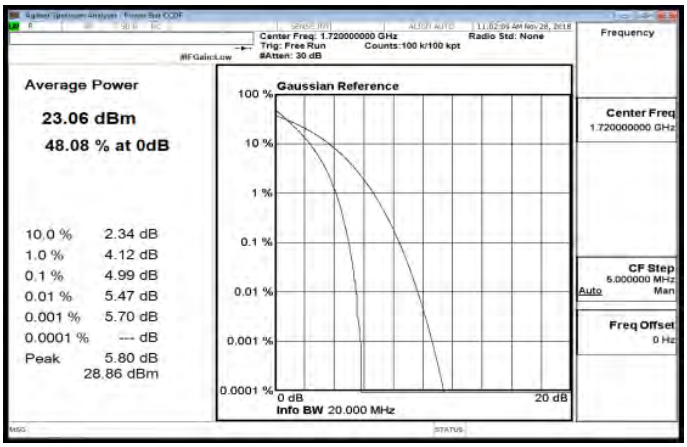
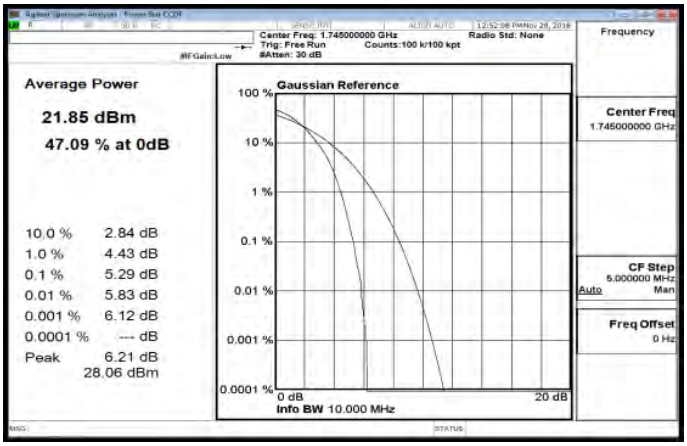
LTE_Band66_15MHz_64QAM_75_0_LowCH132047-1717.5



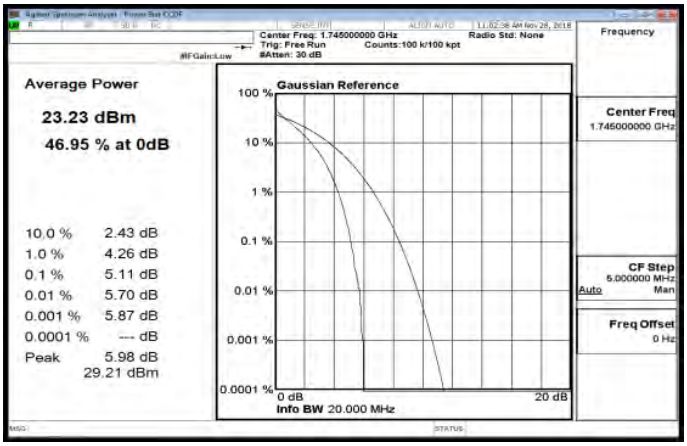
LTE_Band66_20MHz_64QAM_100_0_LowCH132072-1720



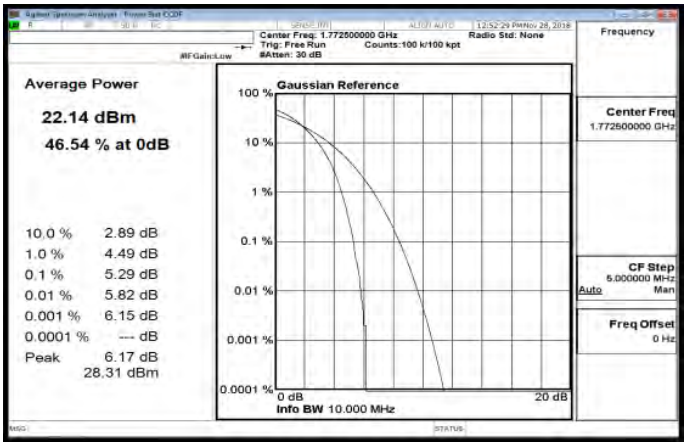
LTE_Band66_15MHz_64QAM_75_0_MidCH132322-1745



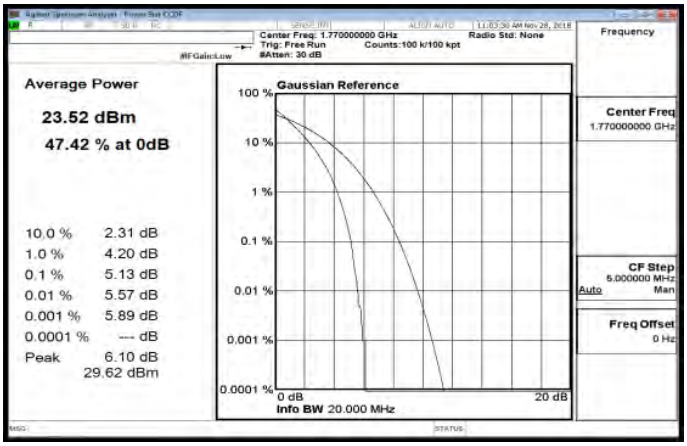
LTE_Band66_20MHz_64QAM_100_0_MidCH132322-1745



LTE_Band66_15MHz_64QAM_75_0_HighCH132597-1772.5



LTE_Band66_20MHz_64QAM_100_0_HighCH132572-1770



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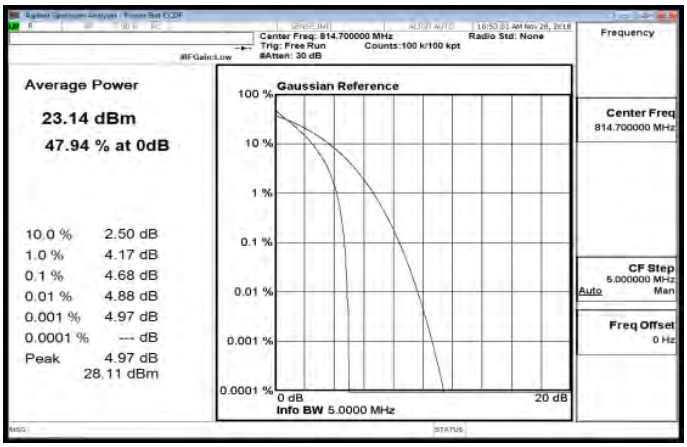
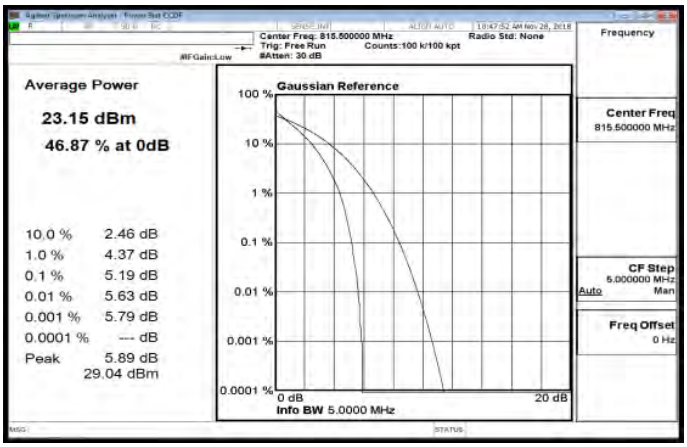
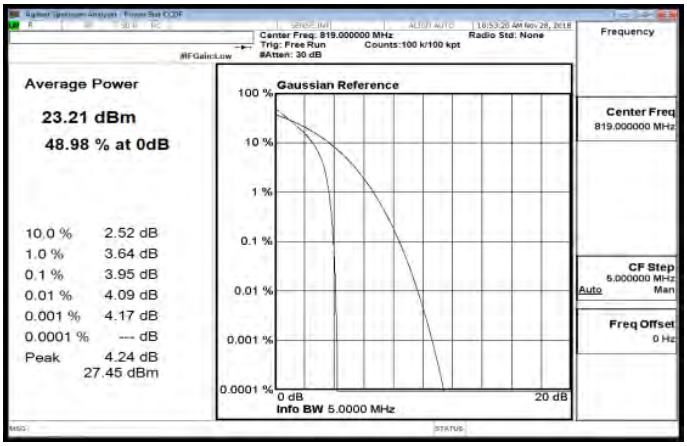
Part 90_LTE_Band26_1_4MHz_64QAM_6_0_LowCH26697-814.7



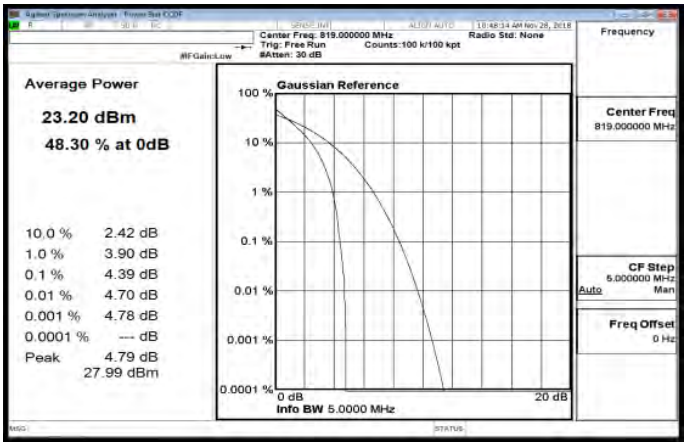
Part 90_LTE_Band26_3MHz_64QAM_15_0_LowCH26705-815.5



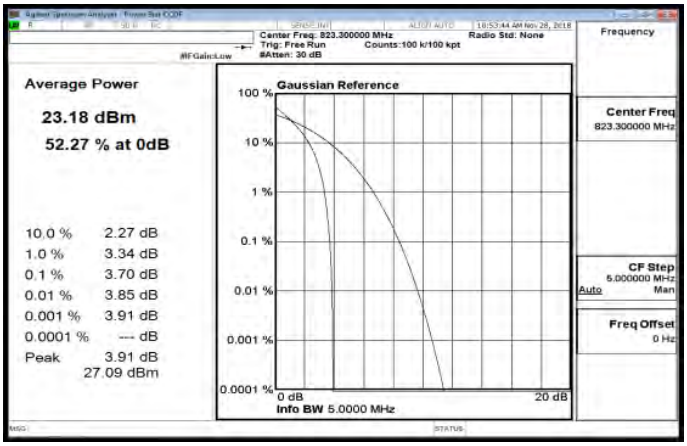
Part 90_LTE_Band26_1_4MHz_64QAM_6_0_MidCH26740-819



Part 90_LTE_Band26_3MHz_64QAM_15_0_MidCH26740-819



Part 90_LTE_Band26_1_4MHz_64QAM_6_0_HighCH26783-823.3



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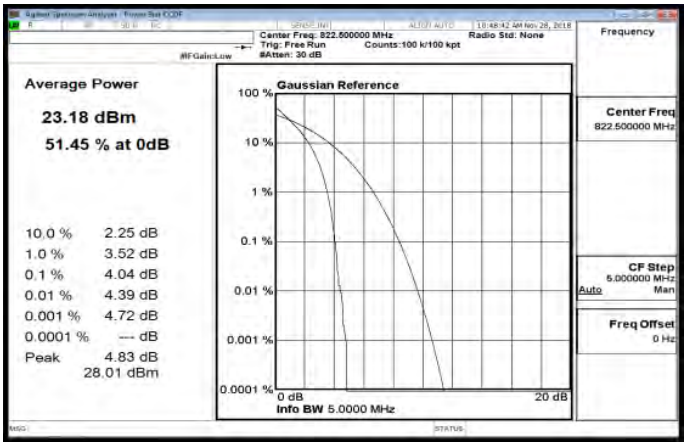

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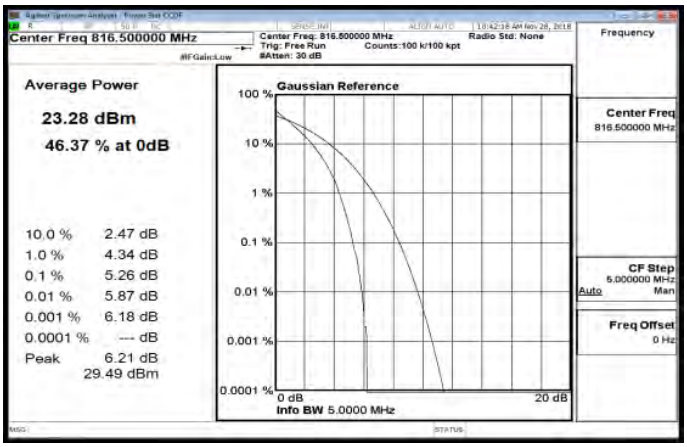
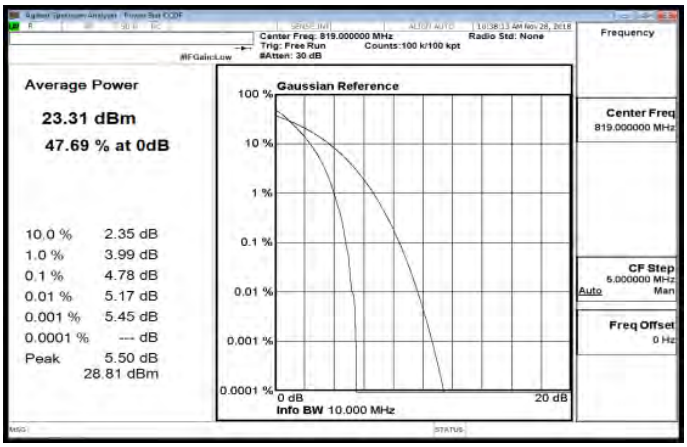
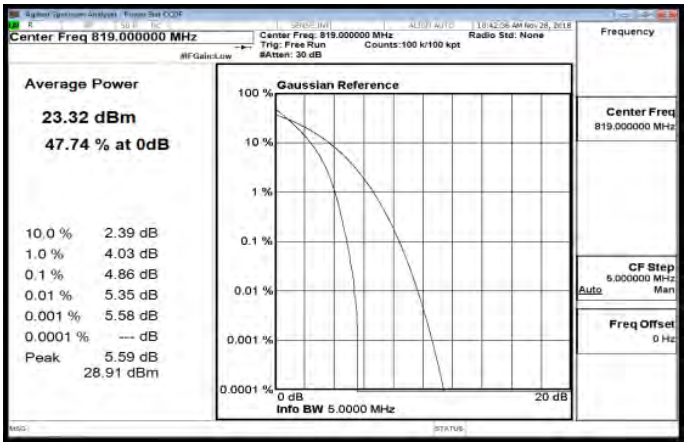
Part 90_LTE_Band26_5MHz_64QAM_25_0_LowCH26715-816.5



Part 90_LTE_Band26_10MHz_64QAM_50_0_MidCH26740-819



Part 90_LTE_Band26_5MHz_64QAM_25_0_MidCH26740-819



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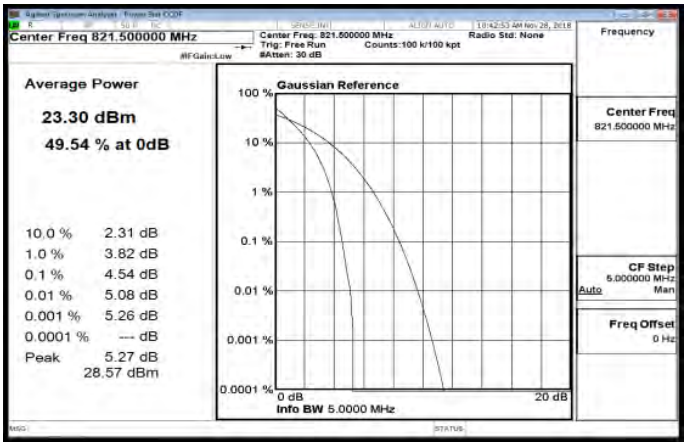

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~ End of Report ~

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