

Appendix A: Power Output Data

Test Result

Band 2						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18607 1850.7MHz	Channel 18900 1880.0MHz	Channel 19193 1909.3MHz
1.4MHz	QPSK	1	0	22.06	22.08	22.17
		1	2	21.34	22.90	21.83
		1	5	21.45	23.60	21.28
		3	0	23.63	21.17	23.10
		3	1	21.91	22.61	22.61
		3	2	20.67	20.78	20.36
		6	0	22.06	21.39	22.61
	16QAM	1	0	21.92	21.84	22.60
		1	2	21.93	22.95	21.50
		1	5	22.74	23.01	22.69
		3	0	23.16	21.96	20.30
		3	1	22.82	23.54	23.77
		3	2	22.95	22.96	22.44
		6	0	21.32	20.45	20.92
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18615 1851.5MHz	Channel 18900 1880.0MHz	Channel 19185 1908.5MHz
3MHz	QPSK	1	0	22.19	23.27	23.53
		1	8	20.47	21.02	20.58
		1	14	22.33	21.54	22.89
		8	0	21.44	20.58	21.84
		8	4	22.76	22.10	21.24
		8	7	21.35	22.80	22.62
		15	0	22.54	22.30	20.60
	16QAM	1	0	23.41	22.39	22.77
		1	8	20.98	22.55	21.26
		1	15	22.67	22.03	20.37
		8	0	20.85	20.56	22.15
		8	4	20.42	21.02	22.05
		8	7	21.24	22.46	21.80
		15	0	22.96	23.07	21.94

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18625 1852.5MHz	Channel 18900 1880.0MHz	Channel 19175 1907.5MHz
5MHz	QPSK	1	0	22.54	22.29	22.46
		1	13	22.36	21.70	21.05
		1	24	21.75	22.42	22.92
		12	0	20.24	22.57	19.82
		12	6	22.45	21.35	21.26
		12	13	23.11	20.89	21.98
		25	0	22.25	23.56	20.94
	16QAM	1	0	21.64	22.68	21.06
		1	13	21.86	21.63	21.14
		1	24	20.75	20.73	22.54
		12	0	22.42	21.24	21.08
		12	6	22.17	22.49	21.56
		12	13	20.75	22.58	23.36
		25	0	21.16	22.27	21.25
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18650 1855.0MHz	Channel 18900 1880.0MHz	Channel 19150 1905.0MHz
10MHz	QPSK	1	0	22.45	22.46	22.43
		1	25	20.46	22.32	21.51
		1	49	23.44	22.12	22.07
		25	0	19.88	20.40	20.72
		25	13	22.88	21.48	22.47
		25	25	20.82	22.02	22.48
		50	0	21.34	23.37	21.33
	16QAM	1	0	21.96	21.17	22.75
		1	25	20.75	21.07	23.57
		1	49	22.02	20.52	20.26
		25	0	21.67	20.31	21.18
		25	13	20.45	23.34	22.49
		25	25	22.66	22.60	21.64
		50	0	23.37	22.57	20.63

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18675 1857.5MHz	Channel 18900 1880.0MHz	Channel 19125 1902.5MHz
15MHz	QPSK	1	0	22.46	21.88	21.86
		1	38	20.34	21.19	22.38
		1	74	20.56	20.44	20.54
		36	0	23.45	23.23	22.05
		36	18	22.67	22.52	22.67
		36	39	20.77	22.63	22.50
		75	0	21.05	22.48	22.13
	16QAM	1	0	22.46	21.24	23.25
		1	38	21.34	21.15	20.97
		1	74	23.31	21.43	23.31
		36	0	21.57	23.53	21.48
		36	18	22.86	21.95	22.10
		36	39	22.15	22.37	20.32
		75	0	20.95	22.46	22.42
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18700 1860.0MHz	Channel 18900 1880.0MHz	Channel 19100 1900.0MHz
20MHz	QPSK	1	0	22.08	22.14	22.26
		1	50	23.17	23.03	20.53
		1	99	22.14	21.48	21.28
		50	0	23.46	20.87	22.34
		50	25	20.74	21.27	19.79
		50	50	23.18	21.75	22.36
		100	0	21.41	23.54	23.03
	16QAM	1	0	22.42	23.08	22.23
		1	50	20.67	20.65	21.08
		1	99	23.06	22.48	23.37
		50	0	21.75	23.26	23.58
		50	25	23.37	21.34	23.06
		50	50	21.04	21.30	22.20
		100	0	20.43	21.23	22.23

Band 4						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 19957 1710.7MHz	Channel 20175 1732.5MHz	Channel 20393 1754.3MHz
1.4MHz	QPSK	1	0	22.36	22.16	22.05
		1	2	21.67	21.81	21.69
		1	5	21.43	23.35	23.08
		3	0	21.74	23.67	22.99
		3	1	22.13	21.42	23.65
		3	2	22.45	22.64	22.45
		6	0	23.88	22.77	22.77
	16QAM	1	0	23.11	22.17	22.04
		1	2	22.22	22.80	22.63
		1	5	21.87	22.30	22.23
		3	0	23.28	22.19	23.74
		3	1	21.81	21.45	23.47
		3	2	23.56	22.64	23.50
		6	0	22.57	22.85	23.82
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 19965 1711.5MHz	Channel 20175 1732.5MHz	Channel 20385 753.5MHz
3MHz	QPSK	1	0	21.9 1	22.78	22.23
		1	8	22.22	22.06	22.33
		1	14	22.96	21.29	21.92
		8	0	22.02	22.62	21.69
		8	4	21.57	21.96	23.21
		8	7	21.18	22.38	22.66
		15	0	23.03	21.35	23.27
	16QAM	1	0	22.47	22.36	21.87
		1	8	23.23	22.10	23.69
		1	15	22.35	22.27	23.25
		8	0	22.54	22.81	22.07
		8	4	22.02	22.70	22.29
		8	7	22.55	22.78	22.72
		15	0	23.06	23.81	21.84

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 19975 1712.5MHz	Channel 20175 1732.5MHz	Channel 20375 1752.5MHz
5MHz	QPSK	1	0	22.57	22.69	22.89
		1	13	23.55	22.61	22.01
		1	24	22.56	23.43	22.68
		12	0	23.22	23.84	21.91
		12	6	22.37	23.51	21.79
		12	13	22.55	22.46	21.50
		25	0	21.94	22.20	22.24
	16QAM	1	0	22.88	23.55	22.08
		1	13	22.96	22.65	22.48
		1	24	22.32	22.38	21.57
		12	0	23.17	23.96	22.31
		12	6	21.67	21.28	21.91
		12	13	22.25	21.71	22.78
		25	0	23.44	23.33	22.64
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20000 1715.0MHz	Channel 20175 1732.5MHz	Channel 20350 1750.0MHz
10MHz	QPSK	1	0	22.22	22.30	22.21
		1	25	21.93	23.47	22.24
		1	49	21.67	22.37	22.49
		25	0	23.54	22.13	23.76
		25	13	22.16	22.23	22.15
		25	25	22.78	23.27	22.76
		50	0	21.85	23.64	22.50
	16QAM	1	0	21.27	21.18	21.03
		1	25	22.52	21.58	22.11
		1	49	22.42	23.24	22.85
		25	0	22.53	21.53	22.79
		25	13	22.51	23.65	23.23
		25	25	21.53	21.22	21.36
		50	0	23.37	21.92	21.87

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20025 1717.5MHz	Channel 20175 1732.5MHz	Channel 20325 1747.5MHz
15MHz	QPSK	1	0	22.06	21.90	22.89
		1	38	23.62	23.53	22.85
		1	74	23.67	21.60	23.09
		36	0	22.95	22.32	22.25
		36	18	23.66	23.45	23.10
		36	39	22.47	21.86	21.98
		75	0	22.13	22.27	23.15
	16QAM	1	0	21.94	23.30	22.21
		1	38	23.32	22.61	22.60
		1	74	22.86	23.03	22.69
		36	0	22.05	22.90	22.01
		36	18	22.22	22.06	22.48
		36	39	21.27	22.11	21.18
		75	0	23.46	21.85	21.40
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20050 1720.0MHz	Channel 20175 1732.5MHz	Channel 20300 1745.0MHz
20MHz	QPSK	1	0	22.81	22.71	22.70
		1	50	21.26	21.55	22.65
		1	99	22.64	22.41	21.96
		50	0	21.82	22.18	23.37
		50	25	23.16	22.40	22.37
		50	50	21.24	22.14	22.36
		100	0	23.27	21.24	22.54
	16QAM	1	0	23.16	21.64	22.81
		1	50	22.55	21.36	23.24
		1	99	23.01	21.27	21.34
		50	0	22.59	23.15	23.07
		50	25	23.05	22.35	22.90
		50	50	23.47	21.49	22.57
		100	0	22.05	23.25	22.95

Band 5						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20407 824.7MHz	Channel 20525 836.5MHz	Channel 20643 848.3MHz
1.4MHz	QPSK	1	0	22.82	22.88	22.82
		1	2	21.47	21.82	21.24
		1	5	20.94	22.88	22.57
		3	0	22.18	23.57	22.56
		3	1	23.27	21.98	24.72
		3	2	21.83	22.25	22.56
		6	0	22.98	22.77	21.97
	16QAM	1	0	22.92	22.49	22.26
		1	2	21.77	22.61	22.65
		1	5	22.26	22.01	21.99
		3	0	23.41	21.89	23.41
		3	1	22.31	21.84	23.82
		3	2	23.12	22.24	23.42
		6	0	22.46	22.32	23.28
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20415 825.5MHz	Channel 20525 836.5MHz	Channel 20635 847.5MHz
3MHz	QPSK	1	0	22.23	22.69	22.38
		1	8	22.67	22.26	21.82
		1	14	22.84	21.69	22.29
		8	0	22.38	22.70	21.76
		8	4	21.05	22.15	23.64
		8	7	21.45	23.03	22.71
		15	0	22.46	20.67	22.57
	16QAM	1	0	22.72	22.85	22.45
		1	8	23.74	22.46	24.44
		1	15	21.99	21.88	23.09
		8	0	22.07	22.56	21.24
		8	4	21.73	22.32	22.11
		8	7	23.15	23.46	23.37
		15	0	22.74	24.04	22.07

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20425 826.5MHz	Channel 20525 836.5MHz	Channel 20625 846.5MHz
5MHz	QPSK	1	0	21.82	21.87	22.45
		1	13	22.57	21.55	21.71
		1	24	22.54	24.08	22.72
		12	0	23.63	23.33	21.42
		12	6	21.43	22.97	21.15
		12	13	23.35	23.20	22.33
		25	0	22.39	22.40	22.63
	16QAM	1	0	23.02	23.95	22.23
		1	13	22.67	22.30	21.49
		1	24	23.58	23.24	22.08
		12	0	23.05	23.03	21.51
		12	6	21.64	22.11	22.46
		12	13	22.36	21.35	23.23
		25	0	23.12	23.35	22.09
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20450 829MHz	Channel 20525 836.5MHz	Channel 20600 844.0MHz
10MHz	QPSK	1	0	22.08	21.50	22.04
		1	25	22.25	23.42	22.07
		1	49	22.34	23.10	23.42
		25	0	23.15	21.26	23.21
		25	13	21.83	21.48	21.58
		25	25	22.76	23.49	22.49
		50	0	21.94	23.00	21.80
	16QAM	1	0	21.68	21.48	21.46
		1	25	22.45	22.41	22.26
		1	49	22.26	23.32	23.26
		25	0	22.45	21.37	22.64
		25	13	22.42	23.36	23.36
		25	25	22.17	22.11	21.61
		50	0	23.09	22.02	21.79

Band 7						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20775 2502.5MHz	Channel 21100 2535MHz	Channel 21425 2567.5MHz
5MHz	QPSK	1	0	22.63	22.60	23.33
		1	13	22.12	22.39	21.30
		1	24	21.14	22.93	22.49
		12	0	22.34	22.31	22.10
		12	6	22.15	22.75	22.51
		12	13	22.46	22.60	22.40
		25	0	22.95	21.64	22.43
	16QAM	1	0	22.72	23.09	22.38
		1	13	22.04	21.22	21.58
		1	24	22.16	21.78	21.71
		12	0	22.68	22.64	22.35
		12	6	21.72	21.56	22.85
		12	13	23.76	23.05	23.83
		25	0	23.65	23.29	23.68
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20800 2505MHz	Channel 21100 2535MHz	Channel 21400 2565MHz
10MHz	QPSK	1	0	21.37	22.10	22.63
		1	25	23.22	21.82	20.83
		1	49	23.09	22.82	23.28
		25	0	22.43	22.82	23.49
		25	13	22.14	23.43	23.26
		25	25	22.45	22.29	21.25
		50	0	22.82	23.07	22.06
	16QAM	1	0	22.08	21.48	21.88
		1	25	23.25	22.83	22.31
		1	49	22.33	22.07	23.63
		25	0	23.64	23.50	23.56
		25	13	23.06	21.55	22.08
		25	25	21.95	22.05	22.73
		50	0	23.94	22.83	23.49

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20825 2507.5MHz	Channel 21100 2535MHz	Channel 21375 2562.5MHz
15MHz	QPSK	1	0	22.17	22.56	22.95
		1	38	22.75	20.98	22.15
		1	74	21.36	21.43	22.12
		36	0	21.66	23.06	21.63
		36	18	22.77	21.30	23.23
		36	39	23.65	22.05	22.09
		75	0	22.42	23.06	22.44
	16QAM	1	0	22.08	22.25	23.35
		1	38	23.34	22.80	23.04
		1	74	23.33	23.66	22.61
		36	0	21.74	23.23	21.77
		36	18	23.91	23.41	23.19
		36	39	23.13	22.54	23.16
		75	0	22.34	23.15	22.47
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20850 2510MHz	Channel 21100 2535MHz	Channel 21350 2560MHz
20MHz	QPSK	1	0	22.62	22.22	23.11
		1	50	21.24	22.13	22.49
		1	99	22.86	22.31	22.89
		50	0	21.61	22.16	23.88
		50	25	23.13	21.45	22.79
		50	50	21.15	22.13	22.58
		100	0	22.75	22.00	21.94
	16QAM	1	0	22.72	21.76	21.81
		1	50	23.69	22.01	22.24
		1	99	23.22	23.02	21.63
		50	0	23.28	21.91	21.55
		50	25	21.77	23.16	22.37
		50	50	23.34	22.43	23.74
		100	0	23.23	23.32	22.34

Band 17						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 23755 706.5MHz	Channel 23790 710MHz	Channel 23825 713.5MHz
5MHz	QPSK	1	0	22.71	22.75	22.71
		1	13	21.52	22.42	20.93
		1	24	20.84	22.72	22.21
		12	0	22.16	22.33	22.34
		12	6	21.5	22.60	22.17
		12	13	22.8	22.51	22.12
		25	0	23.33	22.09	22.89
	16QAM	1	0	22.54	23.05	22.38
		1	13	22.36	21.52	22.22
		1	24	22.34	21.86	22.09
		12	0	22.91	23.23	23.50
		12	6	21.53	21.41	22.97
		12	13	24.14	22.89	24.13
		25	0	22.52	22.12	22.86
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 23780 709MHz	Channel 23790 710MHz	Channel 23800 711MHz
10MHz	QPSK	1	0	22.13	22.67	23.03
		1	25	23.21	22.61	21.52
		1	49	23.68	22.87	23.59
		25	0	21.52	22.53	23.02
		25	13	21.33	22.93	22.63
		25	25	22.91	22.51	21.35
		50	0	22.66	22.28	21.57
	16QAM	1	0	21.64	21.28	21.74
		1	25	23.37	22.94	21.70
		1	49	21.63	21.41	23.06
		25	0	23.08	22.99	22.88
		25	13	24.17	22.27	22.69
		25	25	21.75	21.72	23.14
		50	0	22.81	22.55	22.77

Peak to Average Ratio

Band 2						
Channel Bandwidth	Mode	Channel	RB Configure		Result (dB)	Limit (dB)
			RB Size	RB Offset		
20MHz	QPSK	Low range	1	0	2.40	13
		Mid range	1	0	2.37	
		High range	1	0	2.27	
		Low range	100	0	6.48	
		Mid range	100	0	6.48	
		High range	100	0	6.45	
	16QAM	Low range	1	0	2.40	13
		Mid range	1	0	2.42	
		High range	1	0	2.29	
		Low range	100	0	6.47	
		Mid range	100	0	6.47	
		High range	100	0	6.45	

Band 4						
Channel Bandwidth	Mode	Channel	RB Configure		Result (dB)	Limit (dB)
			RB Size	RB Offset		
20MHz	QPSK	Low range	1	0	1.89	13
		Mid range	1	0	1.91	
		High range	1	0	1.83	
		Low range	100	0	6.48	
		Mid range	100	0	6.47	
		High range	100	0	6.45	
	16QAM	Low range	1	0	1.88	13
		Mid range	1	0	1.91	
		High range	1	0	1.83	
		Low range	100	0	6.48	
		Mid range	100	0	6.47	
		High range	100	0	6.45	

Band 5						
Channel Bandwidth	Mode	Channel	RB Configure		Result (dB)	Limit (dB)
			RB Size	RB Offset		
10MHz	QPSK	Low range	1	0	4.48	13
		Mid range	1	0	4.13	
		High range	1	0	4.38	
		Low range	50	0	4.56	
		Mid range	50	0	4.63	
		High range	50	0	4.59	
	16QAM	Low range	1	0	4.46	13
		Mid range	1	0	4.14	
		High range	1	0	4.38	
		Low range	50	0	4.56	
		Mid range	50	0	4.64	
		High range	50	0	4.60	

Band 7						
Channel Bandwidth	Mode	Channel	RB Configure		Result (dB)	Limit (dB)
			RB Size	RB Offset		
20MHz	QPSK	Low range	1	0	2.22	13
		Mid range	1	0	3.41	
		High range	1	0	3.02	
		Low range	100	0	6.49	
		Mid range	100	0	6.46	
		High range	100	0	6.51	
	16QAM	Low range	1	0	2.22	13
		Mid range	1	0	3.41	
		High range	1	0	2.23	
		Low range	100	0	6.49	
		Mid range	100	0	6.46	
		High range	100	0	6.51	

Band 17						
Channel Bandwidth	Mode	Channel	RB Configure		Result (dB)	Limit (dB)
			RB Size	RB Offset		
10MHz	QPSK	Low range	1	0	4.68	13
		Mid range	1	0	4.81	
		High range	1	0	4.85	
		Low range	50	0	4.70	
		Mid range	50	0	4.64	
		High range	50	0	4.63	
	16QAM	Low range	1	0	4.68	13
		Mid range	1	0	4.81	
		High range	1	0	4.86	
		Low range	50	0	4.70	
		Mid range	50	0	4.63	
		High range	50	0	4.63	

Test Mode: LTE Band 2

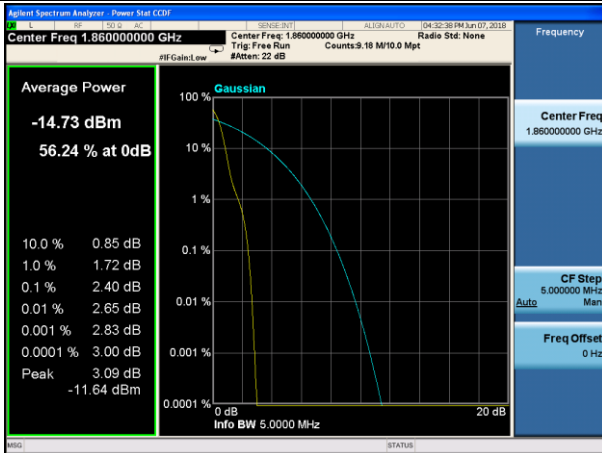
Modulation: QPSK

Channel Bandwidth: 20MHz / 1RB

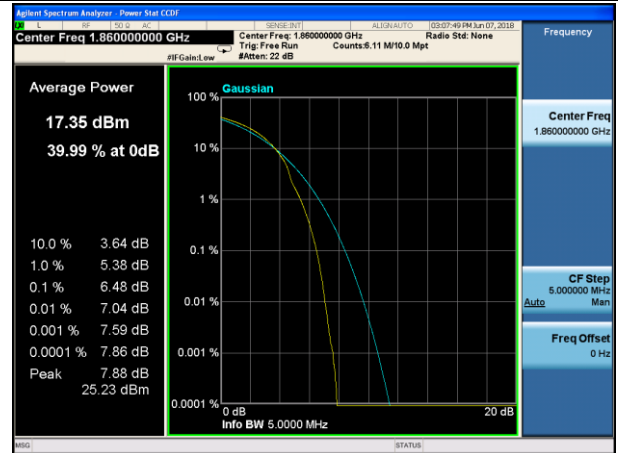
Test Mode: LTE Band 2

Modulation: QPSK

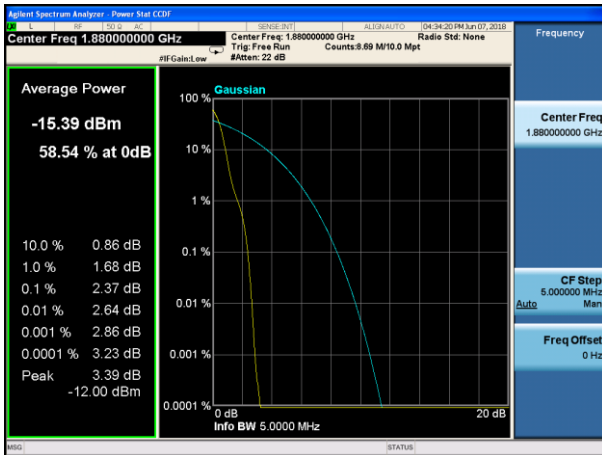
Channel Bandwidth: 20MHz / 100RB



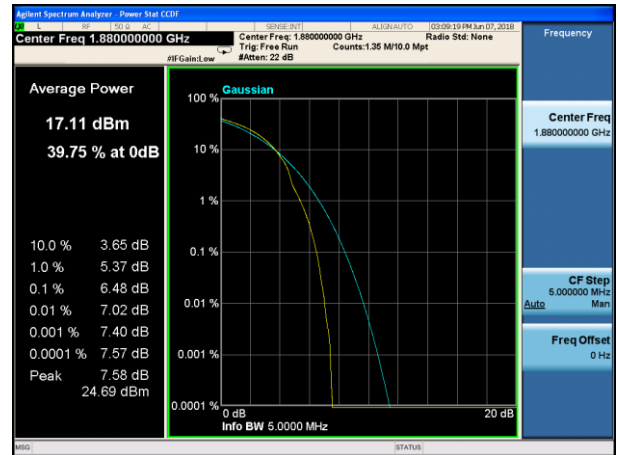
Lowest channel



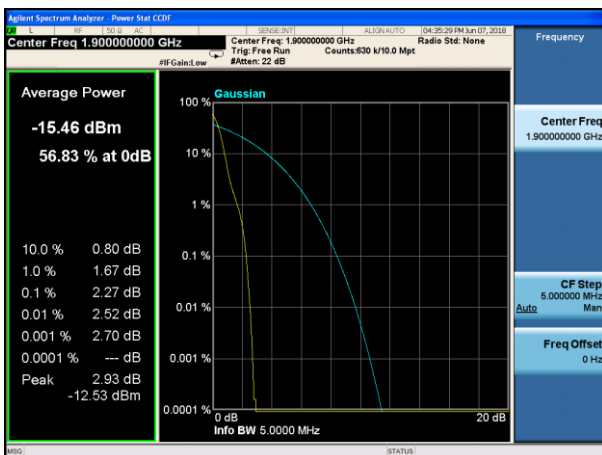
Lowest channel



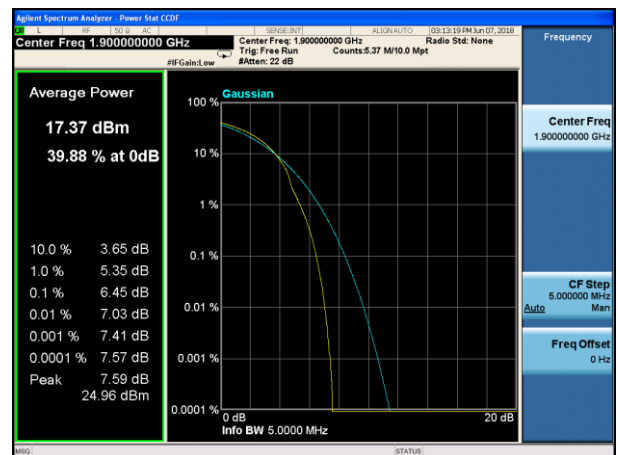
Middle channel



Middle channel



Highest channel



Highest channel

Test Mode: LTE Band 2

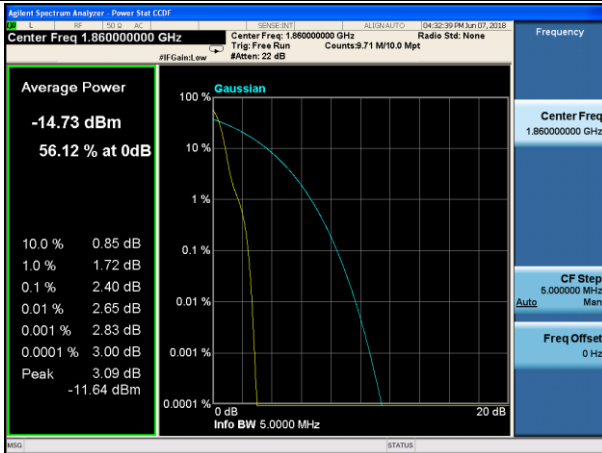
Modulation: 16QAM

Channel Bandwidth: 20MHz / 1RB

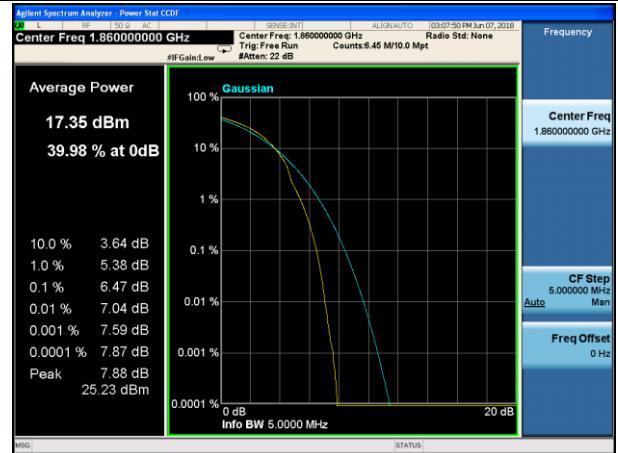
Test Mode: LTE Band 2

Modulation: 16QAM

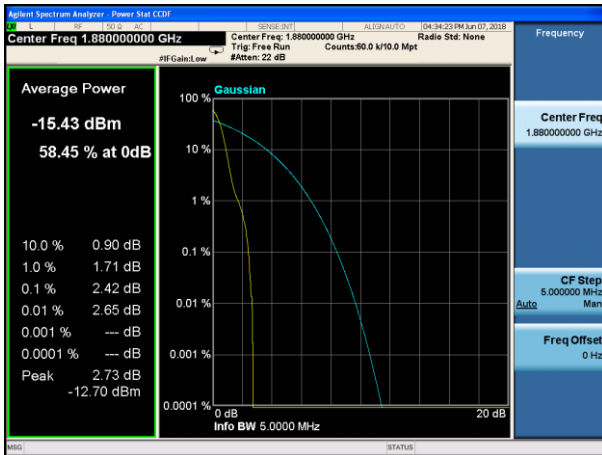
Channel Bandwidth: 20MHz / 100RB



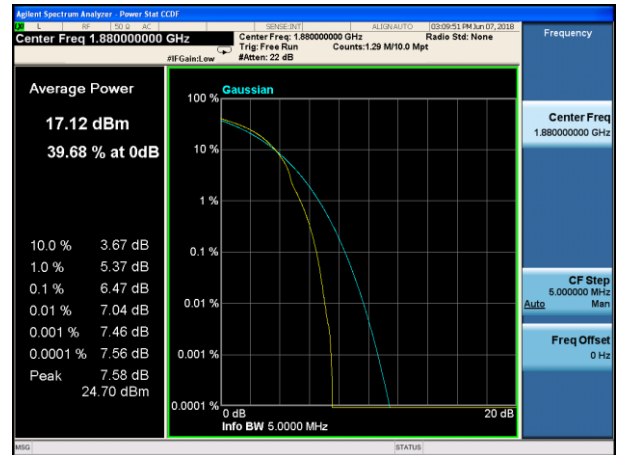
Lowest channel



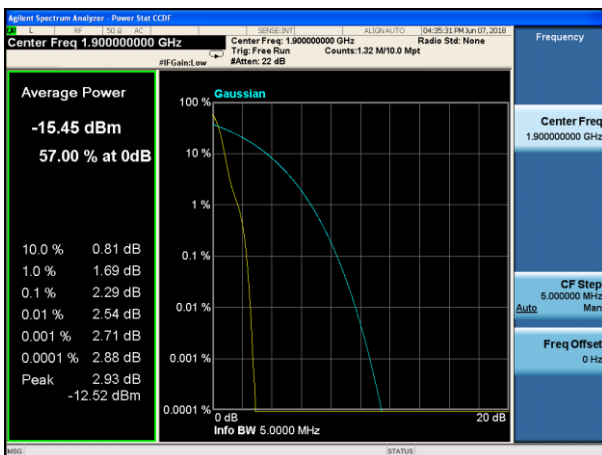
Lowest channel



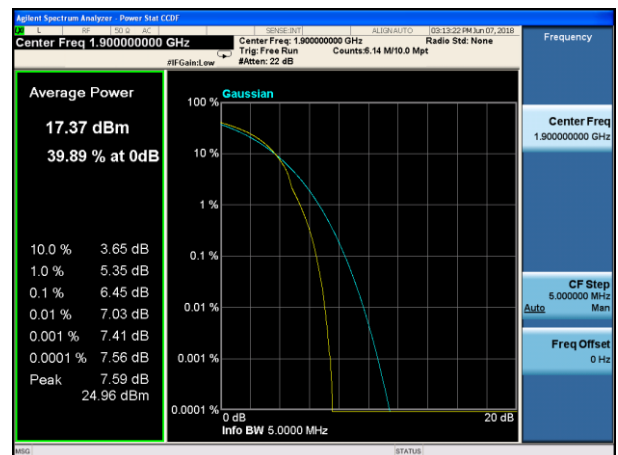
Middle channel



Middle channel

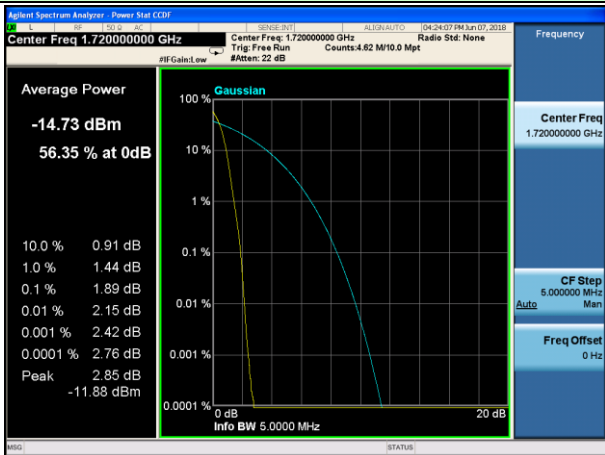


Highest channel

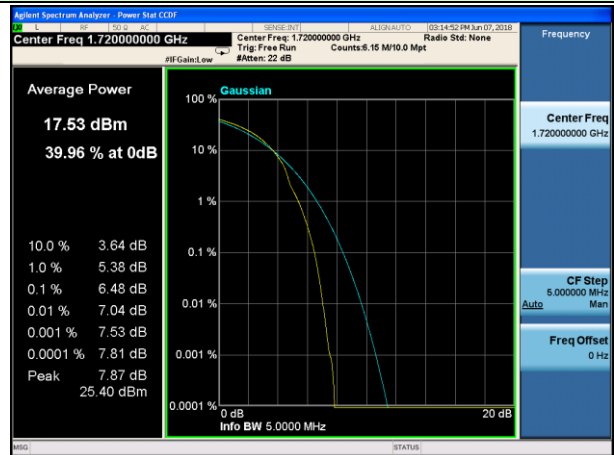


Highest channel

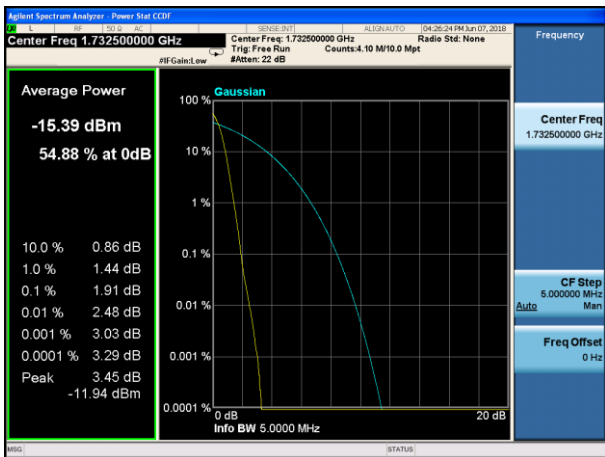
Test Mode: LTE Band 4 Modulation: QPSK Channel Bandwidth: 20MHz / 1RB	Test Mode: LTE Band 4 Modulation: QPSK Channel Bandwidth: 20MHz / 100RB
---	---



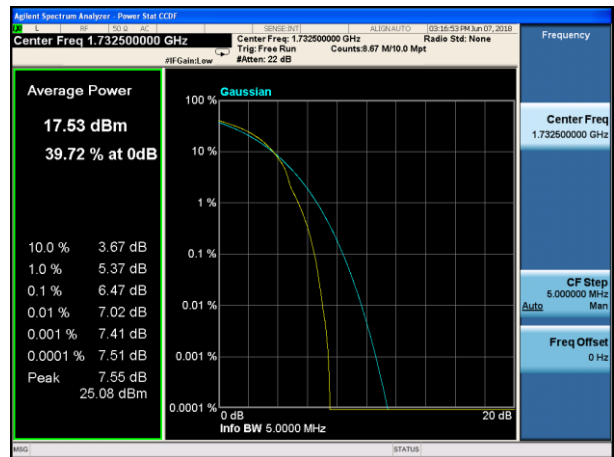
Lowest channel



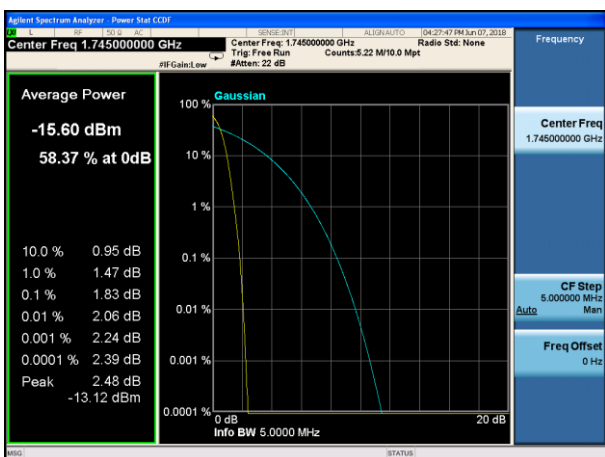
Lowest channel



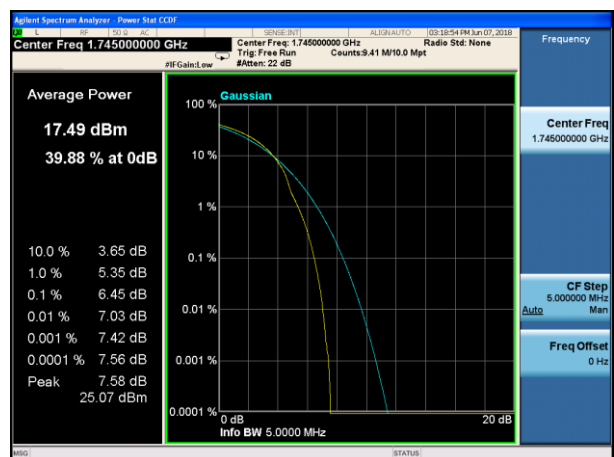
Middle channel



Middle channel



Highest channel



Highest channel

Test Mode: LTE Band 4

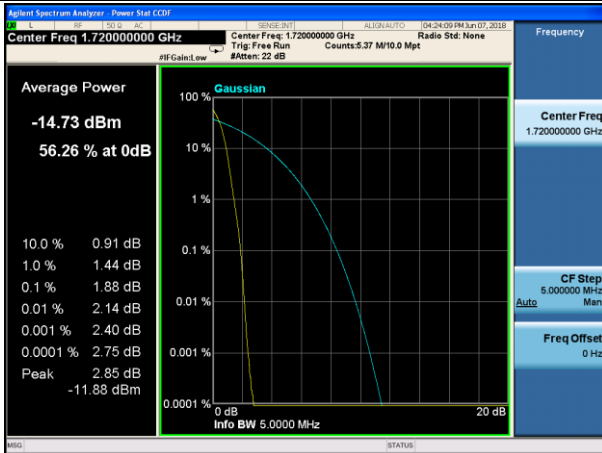
Modulation: 16QAM

Channel Bandwidth: 20MHz / 1RB

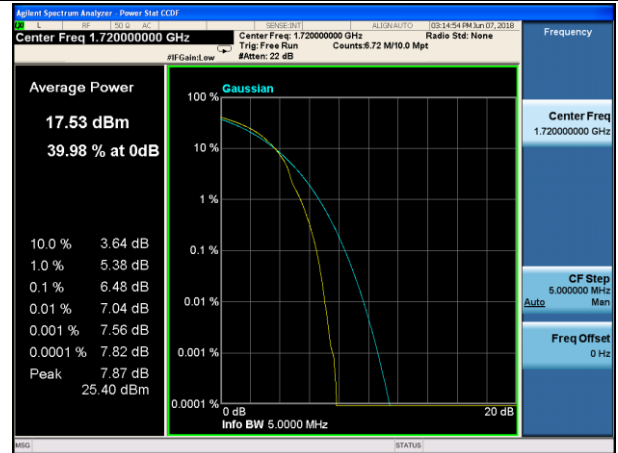
Test Mode: LTE Band 4

Modulation: 16QAM

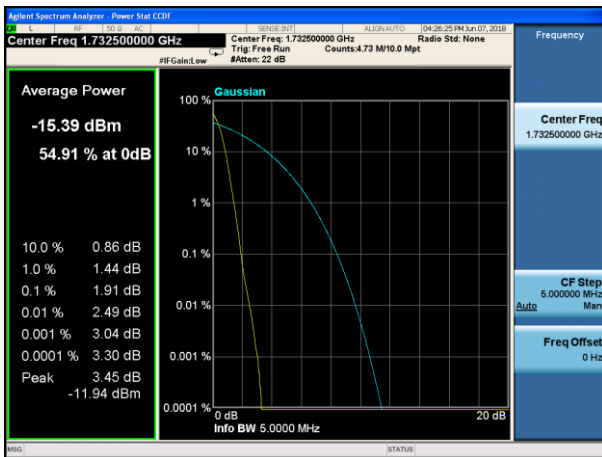
Channel Bandwidth: 20MHz / 100RB



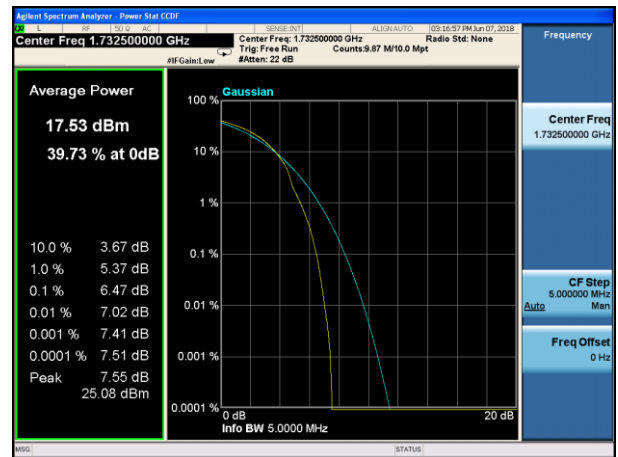
Lowest channel



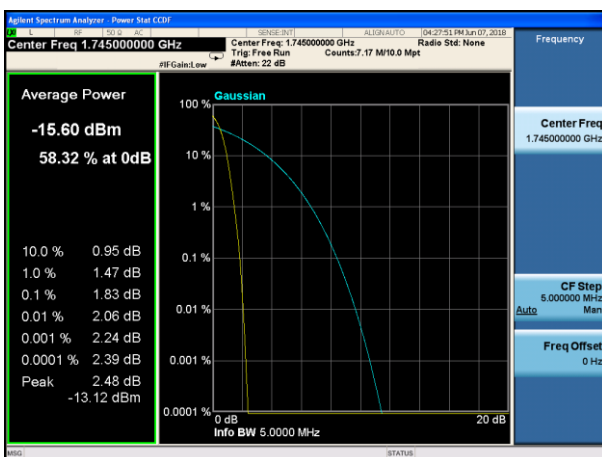
Lowest channel



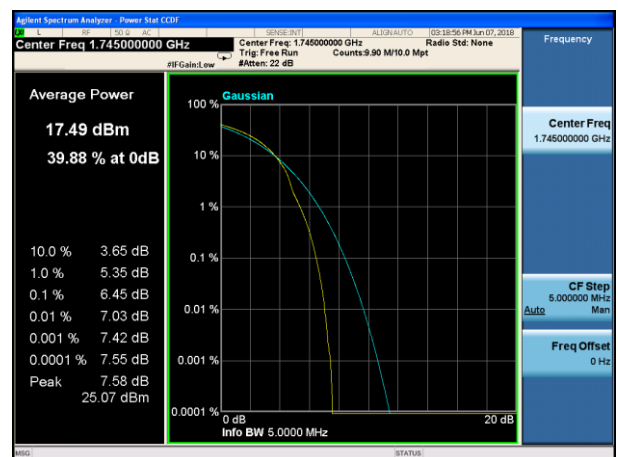
Middle channel



Middle channel



Highest channel



Highest channel

Test Mode: LTE Band 5

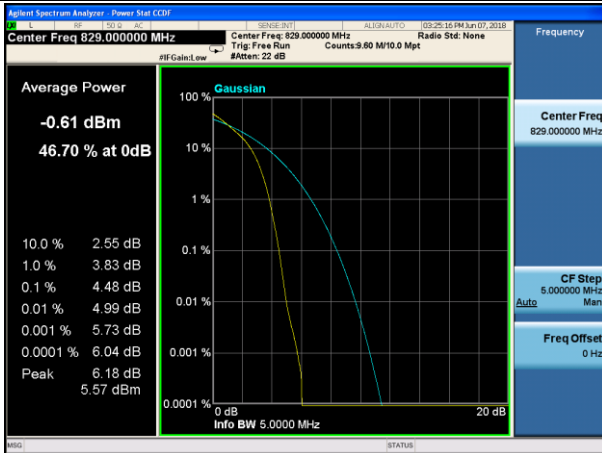
Modulation: QPSK

Channel Bandwidth: 10MHz / 1RB

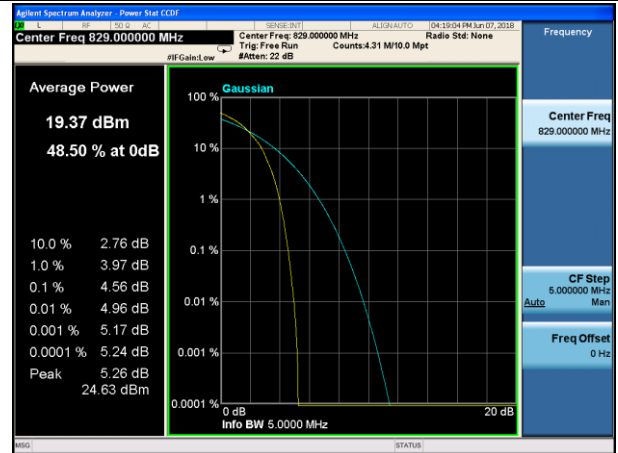
Test Mode: LTE Band 5

Modulation: QPSK

Channel Bandwidth: 10MHz / 50RB



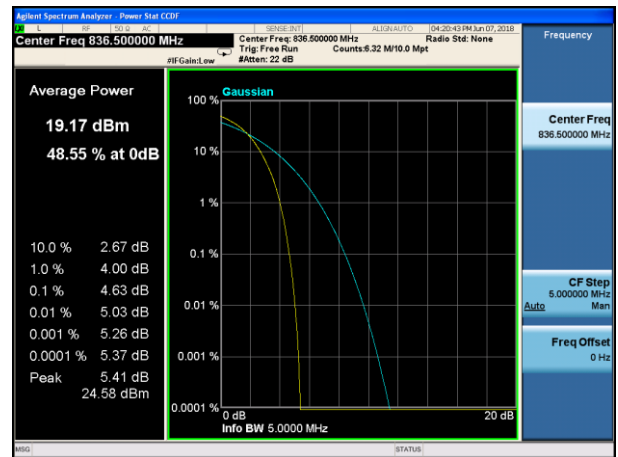
Lowest channel



Lowest channel



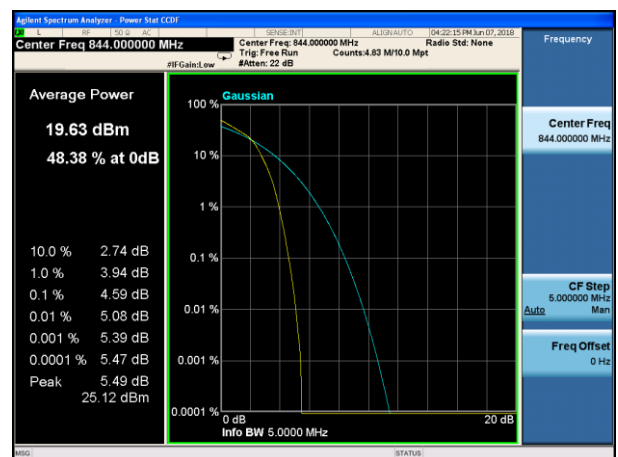
Middle channel



Middle channel

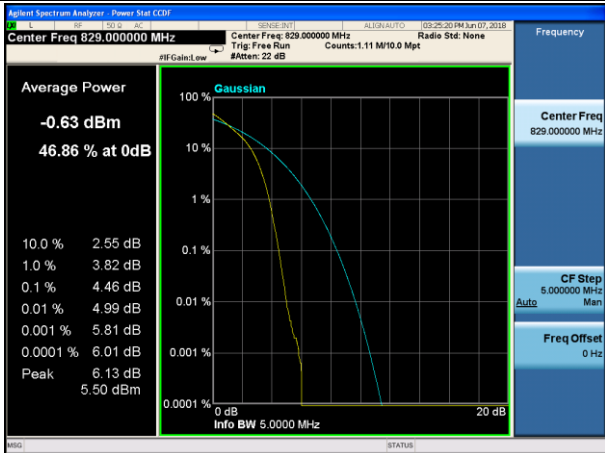


Highest channel



Highest channel

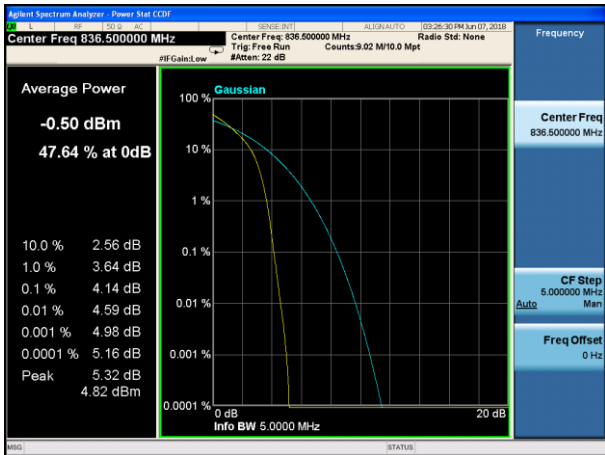
<p>Test Mode: LTE Band 5 Modulation: 16QAM Channel Bandwidth: 10MHz / 1RB</p>	<p>Test Mode: LTE Band 5 Modulation: 16QAM Channel Bandwidth: 10MHz / 50RB</p>
---	--



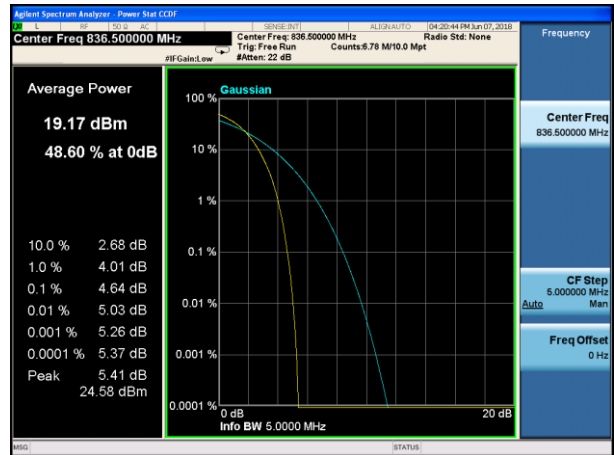
Lowest channel



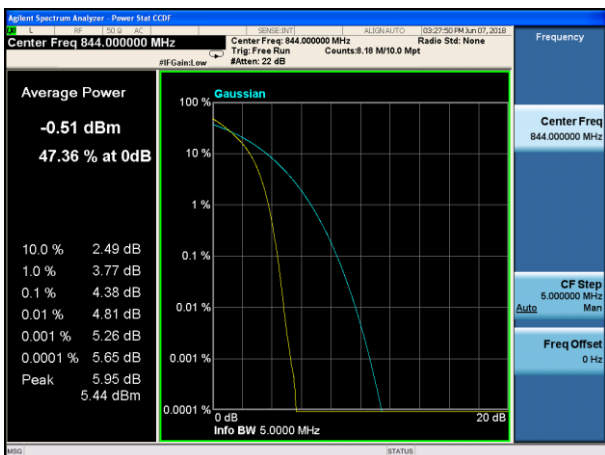
Lowest channel



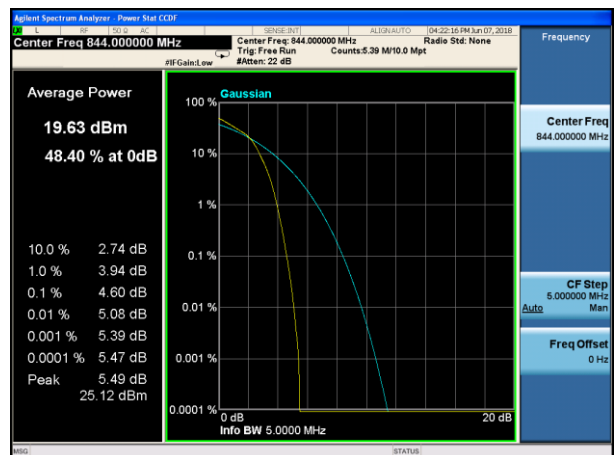
Middle channel



Middle channel

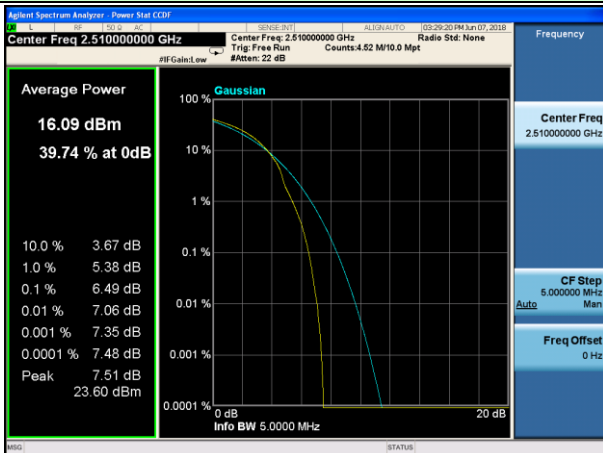


Highest channel

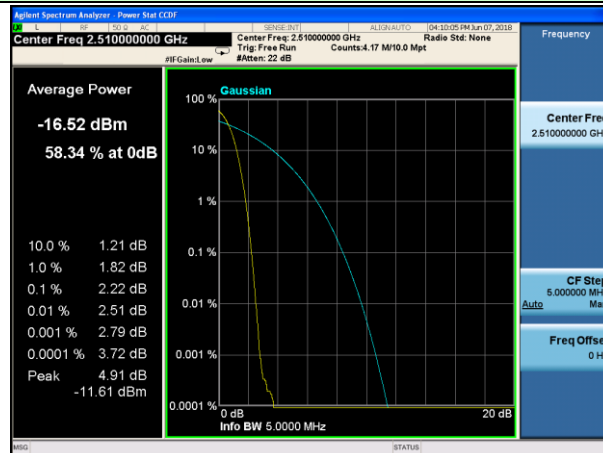


Highest channel

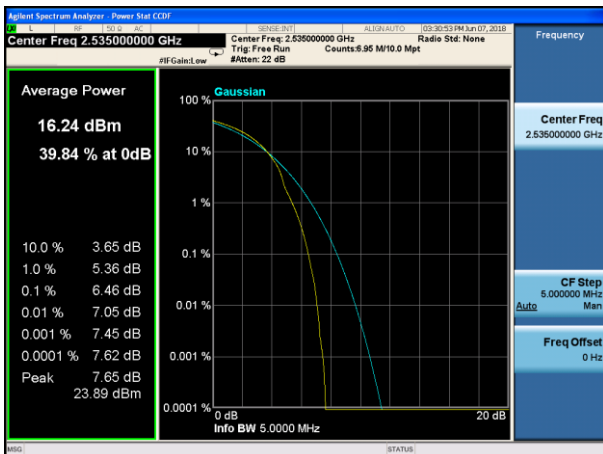
Test Mode: LTE Band 7 Modulation: QPSK Channel Bandwidth: 20MHz / 1RB	Test Mode: LTE Band 7 Modulation: QPSK Channel Bandwidth: 20MHz / 100RB
---	---



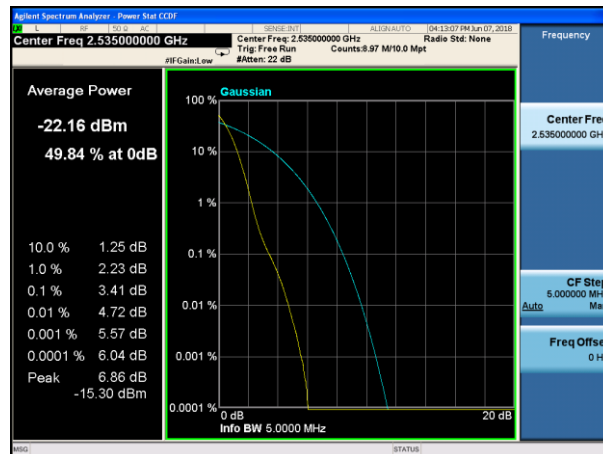
Lowest channel



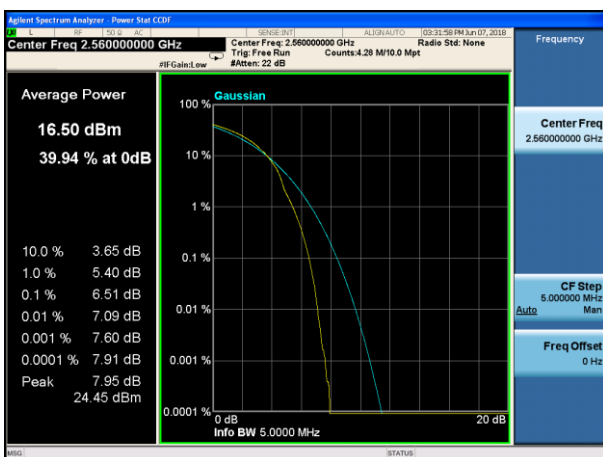
Lowest channel



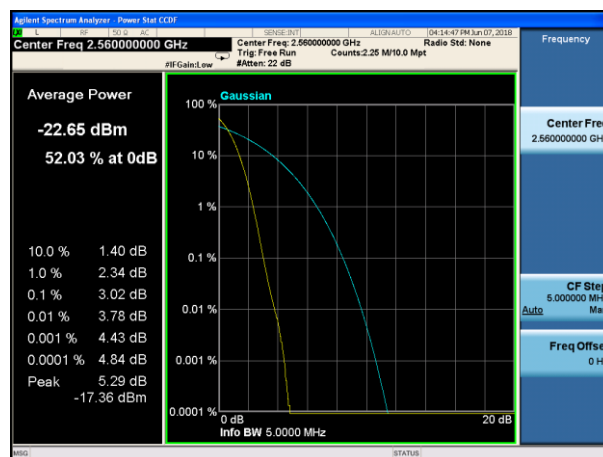
Middle channel



Middle channel

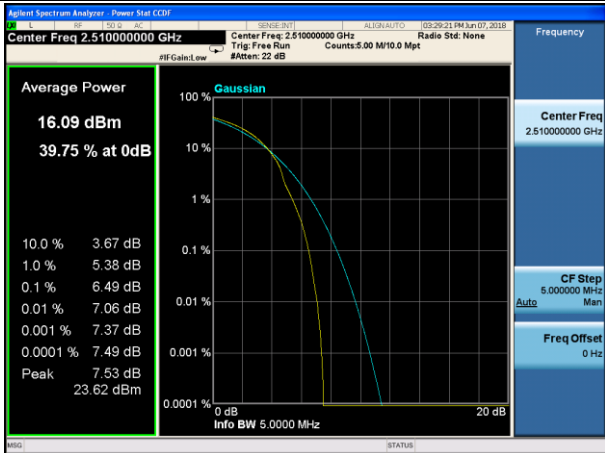


Highest channel

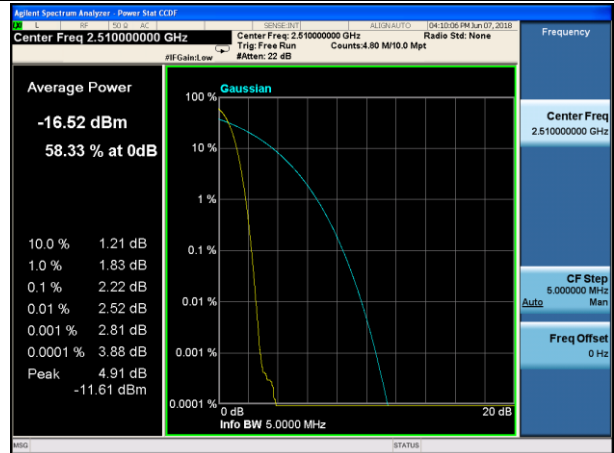


Highest channel

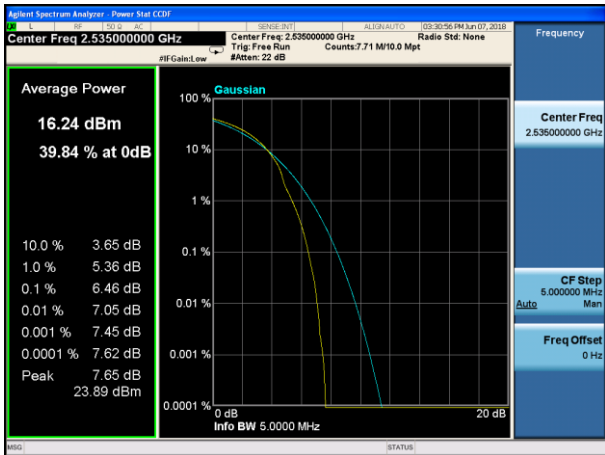
Test Mode: LTE Band 7 Modulation: 16QAM Channel Bandwidth: 20MHz / 1RB	Test Mode: LTE Band 7 Modulation: 16QAM Channel Bandwidth: 20MHz / 100RB
--	--



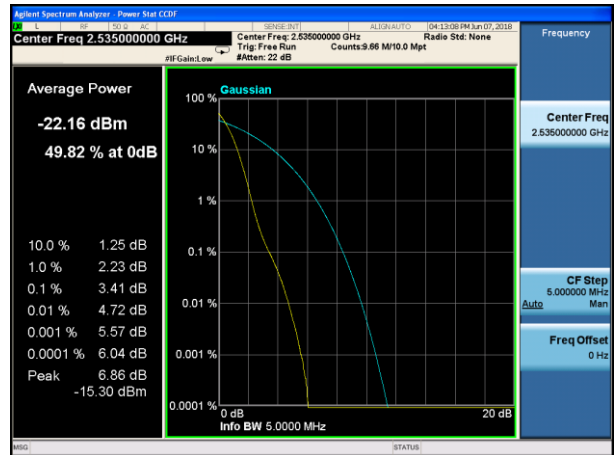
Lowest channel



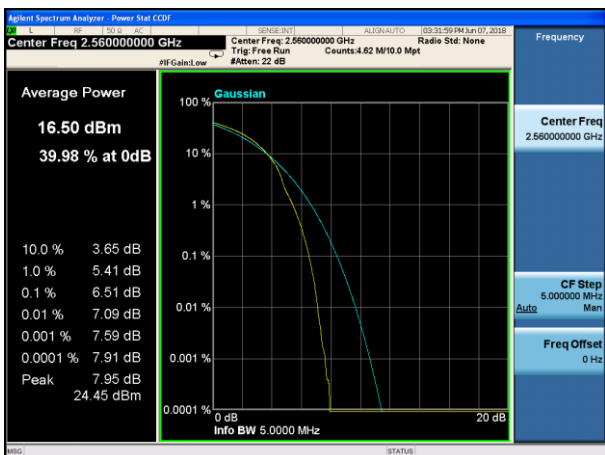
Lowest channel



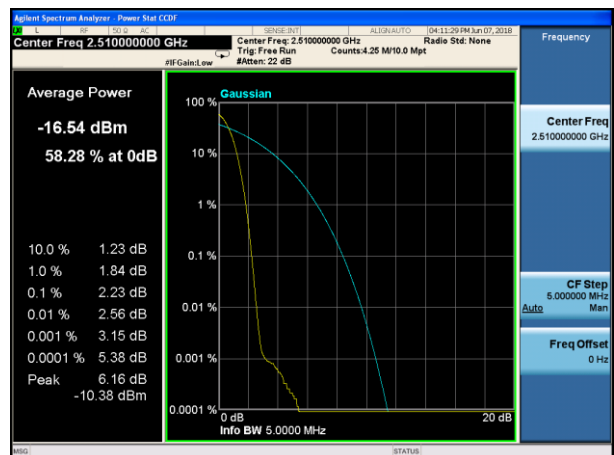
Middle channel



Middle channel



Highest channel



Highest channel

Test Mode: LTE Band 17

Modulation: QPSK

Channel Bandwidth: 10MHz / 1RB

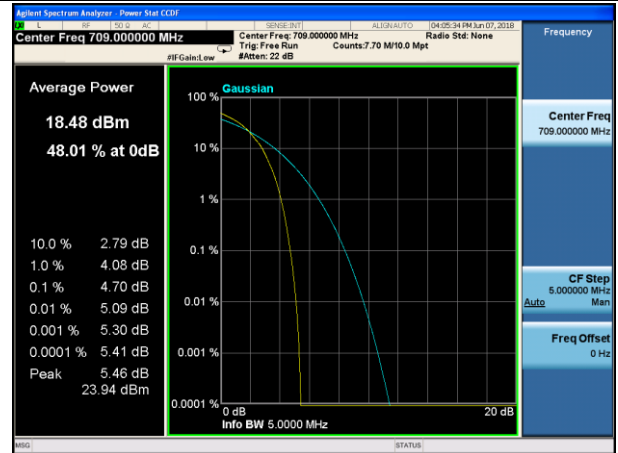
Test Mode: LTE Band 17

Modulation: QPSK

Channel Bandwidth: 10MHz / 50RB



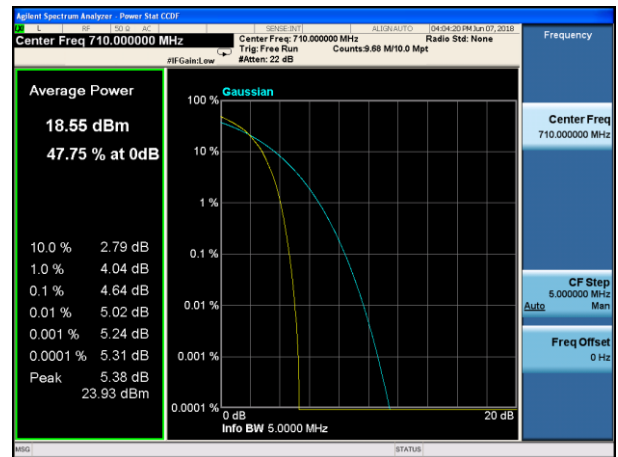
Lowest channel



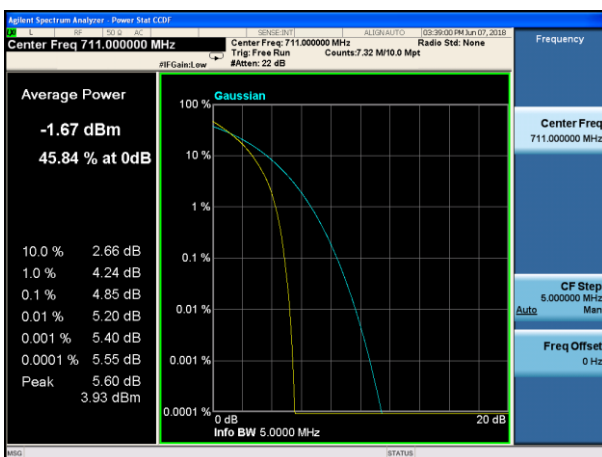
Lowest channel



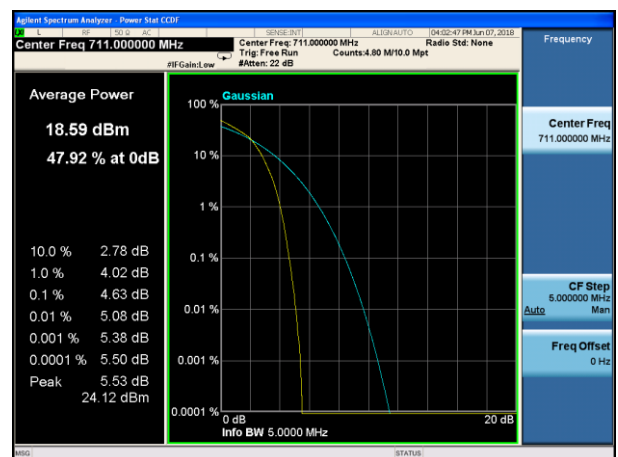
Middle channel



Middle channel



Highest channel



Highest channel

Test Mode: LTE Band 17

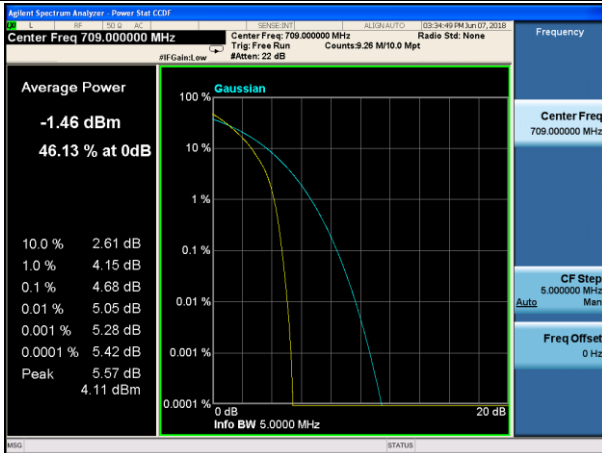
Modulation: 16QAM

Channel Bandwidth: 10MHz / 1RB

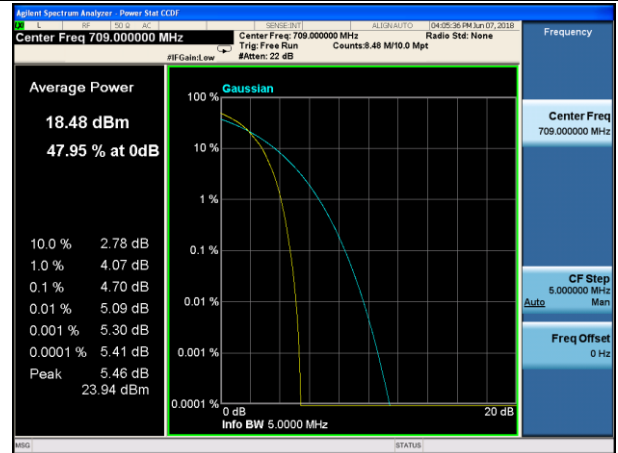
Test Mode: LTE Band 17

Modulation: 16QAM

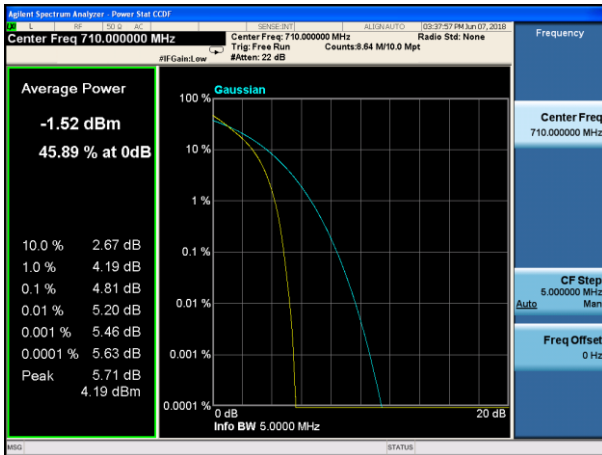
Channel Bandwidth: 10MHz / 50RB



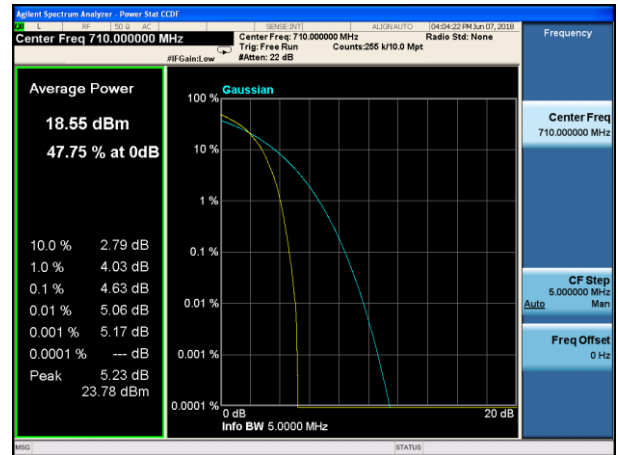
Lowest channel



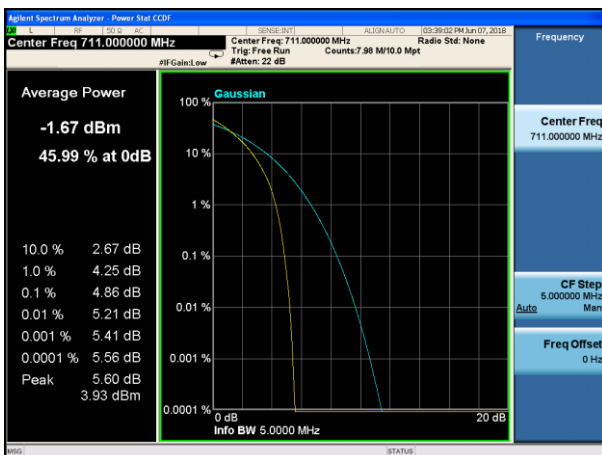
Lowest channel



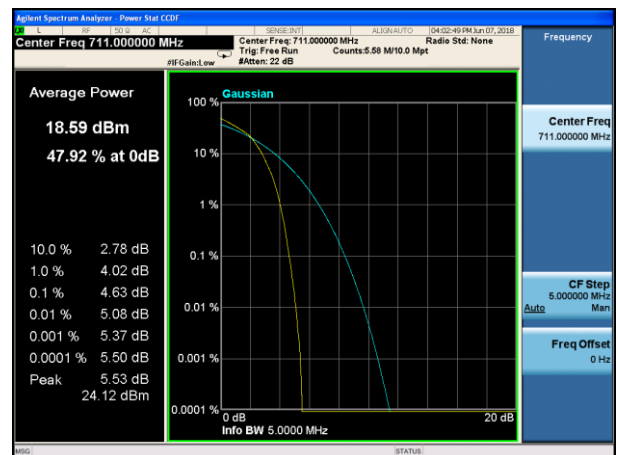
Middle channel



Middle channel



Highest channel



Highest channel

ERP and EIRP Power Data

ERP=Output power + Antenna Gain – 2.15

EIRP=Output power + Antenna Gain

Max Antenna Gain=0.5dBi for B2, B4, B7

Max Antenna Gain=0.3dBd for B5, B17

Test Result

Band 2						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18607 1850.7MHz	Channel 18900 1880.0MHz	Channel 19193 1909.3MHz
1.4MHz	QPSK	1	0	22.56	22.58	22.67
		1	2	21.84	23.4	22.33
		1	5	21.95	24.1	21.78
		3	0	24.13	21.67	23.6
		3	1	22.41	23.11	23.11
		3	2	21.17	21.28	20.86
	16QAM	1	0	22.42	22.34	23.1
		1	2	22.43	23.45	22
		1	5	23.24	23.51	23.19
		3	0	23.66	22.46	20.8
		3	1	23.32	24.04	24.27
		3	2	23.45	23.46	22.94
		6	0	21.82	20.95	21.42
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18615 1851.5MHz	Channel 18900 1880.0MHz	Channel 19185 1908.5MHz
3MHz	QPSK	1	0	22.69	23.77	24.03
		1	8	20.97	21.52	21.08
		1	14	22.83	22.04	23.39
		8	0	21.94	21.08	22.34
		8	4	23.26	22.6	21.74
		8	7	21.85	23.3	23.12
		15	0	23.04	22.8	21.1
	16QAM	1	0	23.91	22.89	23.27
		1	8	21.48	23.05	21.76
		1	15	23.17	22.53	20.87
		8	0	21.35	21.06	22.65
		8	4	20.92	21.52	22.55

		8	7	21.74	22.96	22.3
		15	0	23.46	23.57	22.44

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18625 1852.5MHz	Channel 18900 1880.0MHz	Channel 19175 1907.5MHz
5MHz	QPSK	1	0	23.04	22.79	22.96
		1	13	22.86	22.2	21.55
		1	24	22.25	22.92	23.42
		12	0	20.74	23.07	20.32
		12	6	22.95	21.85	21.76
		12	13	23.61	21.39	22.48
		25	0	22.75	24.06	21.44
	16QAM	1	0	22.14	23.18	21.56
		1	13	22.36	22.13	21.64
		1	24	21.25	21.23	23.04
		12	0	22.92	21.74	21.58
		12	6	22.67	22.99	22.06
		12	13	21.25	23.08	23.86
		25	0	21.66	22.77	21.75
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18650 1855.0MHz	Channel 18900 1880.0MHz	Channel 19150 1905.0MHz
10MHz	QPSK	1	0	22.95	22.96	22.93
		1	25	20.96	22.82	22.01
		1	49	23.94	22.62	22.57
		25	0	20.38	20.9	21.22
		25	13	23.38	21.98	22.97
		25	25	21.32	22.52	22.98
		50	0	21.84	23.87	21.83
	16QAM	1	0	22.46	21.67	23.25
		1	25	21.25	21.57	24.07
		1	49	22.52	21.02	20.76
		25	0	22.17	20.81	21.68
		25	13	20.95	23.84	22.99
		25	25	23.16	23.1	22.14
		50	0	23.87	23.07	21.13

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18675 1857.5MHz	Channel 18900 1880.0MHz	Channel 19125 1902.5MHz
15MHz	QPSK	1	0	22.96	22.38	22.36
		1	38	20.84	21.69	22.88
		1	74	21.06	20.94	21.04
		36	0	23.95	23.73	22.55
		36	18	23.17	23.02	23.17
		36	39	21.27	23.13	23
		75	0	21.55	22.98	22.63
	16QAM	1	0	22.96	21.74	23.75
		1	38	21.84	21.65	21.47
		1	74	23.81	21.93	23.81
		36	0	22.07	24.03	21.98
		36	18	23.36	22.45	22.6
		36	39	22.65	22.87	20.82
		75	0	21.45	22.96	22.92
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 18700 1860.0MHz	Channel 18900 1880.0MHz	Channel 19100 1900.0MHz
20MHz	QPSK	1	0	22.58	22.64	22.76
		1	50	23.67	23.53	21.03
		1	99	22.64	21.98	21.78
		50	0	23.96	21.37	22.84
		50	25	21.24	21.77	20.29
		50	50	23.68	22.25	22.86
		100	0	21.91	24.04	23.53
	16QAM	1	0	22.92	23.58	22.73
		1	50	21.17	21.15	21.58
		1	99	23.56	22.98	23.87
		50	0	22.25	23.76	24.08
		50	25	23.87	21.84	23.56
		50	50	21.54	21.8	22.7
		100	0	20.93	21.73	22.73

Band 4						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 19957 1710.7MHz	Channel 20175 1732.5MHz	Channel 20393 1754.3MHz
1.4MHz	QPSK	1	0	22.86	22.66	22.55
		1	2	22.17	22.31	22.19
		1	5	21.93	23.85	23.58
		3	0	22.24	24.17	23.49
		3	1	22.63	21.92	24.15
		3	2	22.95	23.14	22.95
		6	0	24.38	23.27	23.27
	16QAM	1	0	23.61	22.67	22.54
		1	2	22.72	23.3	23.13
		1	5	22.37	22.8	22.73
		3	0	23.78	22.69	24.24
		3	1	22.31	21.95	23.97
		3	2	24.06	23.14	24
		6	0	23.07	23.35	24.32
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 19965 1711.5MHz	Channel 20175 1732.5MHz	Channel 20385 1753.5MHz
3MHz	QPSK	1	0	22.41	23.28	22.73
		1	8	22.72	22.56	22.83
		1	14	23.46	21.79	22.42
		8	0	22.52	23.12	22.19
		8	4	22.07	22.46	23.71
		8	7	21.68	22.88	23.16
		15	0	23.53	21.85	23.77
	16QAM	1	0	22.97	22.86	22.37
		1	8	23.73	22.6	24.19
		1	15	22.85	22.77	23.75
		8	0	23.04	23.31	22.57
		8	4	22.52	23.2	22.79
		8	7	23.05	23.28	23.22
		15	0	23.56	24.31	22.34

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 19975 1712.5MHz	Channel 20175 1732.5MHz	Channel 20375 1752.5MHz
5MHz	QPSK	1	0	23.07	23.19	23.39
		1	13	24.05	23.11	22.51
		1	24	23.06	23.93	23.18
		12	0	23.72	24.34	22.41
		12	6	22.87	24.01	22.29
		12	13	23.05	22.96	22
		25	0	22.44	22.7	22.74
	16QAM	1	0	23.38	24.05	22.58
		1	13	23.46	23.15	22.98
		1	24	22.82	22.88	22.07
		12	0	23.67	24.46	22.81
		12	6	22.17	21.78	22.41
		12	13	22.75	22.21	23.28
		25	0	23.94	23.83	23.14
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20000 1715.0MHz	Channel 20175 1732.5MHz	Channel 20350 1750.0MHz
10MHz	QPSK	1	0	22.72	22.8	22.71
		1	25	22.43	23.97	22.74
		1	49	22.17	22.87	22.99
		25	0	24.04	22.63	24.26
		25	13	22.66	22.73	22.65
		25	25	23.28	23.77	23.26
		50	0	22.35	24.14	23
	16QAM	1	0	21.77	21.68	21.53
		1	25	23.02	22.08	22.61
		1	49	22.92	23.74	23.35
		25	0	23.03	22.03	23.29
		25	13	23.01	24.15	23.73
		25	25	22.03	21.72	21.86
		50	0	23.87	22.42	22.37

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20025 1717.5MHz	Channel 20175 1732.5MHz	Channel 20325 1747.5MHz
15MHz	QPSK	1	0	22.56	22.4	23.39
		1	38	24.12	24.03	23.35
		1	74	24.17	22.1	23.59
		36	0	23.45	22.82	22.75
		36	18	24.16	23.95	23.6
		36	39	22.97	22.36	22.48
		75	0	22.63	22.77	23.65
	16QAM	1	0	22.44	23.8	22.71
		1	38	23.82	23.11	23.1
		1	74	23.36	23.53	23.19
		36	0	22.55	23.4	22.51
		36	18	22.72	22.56	22.98
		36	39	21.77	22.61	21.68
		75	0	23.96	22.35	21.9
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20050 1720.0MHz	Channel 20175 1732.5MHz	Channel 20300 1745.0MHz
20MHz	QPSK	1	0	22.81	22.71	22.70
		1	50	21.26	21.55	22.65
		1	99	22.64	22.41	21.96
		50	0	21.82	22.18	23.37
		50	25	23.16	22.40	22.37
		50	50	21.24	22.14	22.36
		100	0	23.27	21.24	22.54
	16QAM	1	0	23.16	21.64	22.81
		1	50	22.55	21.36	23.24
		1	99	23.01	21.27	21.34
		50	0	22.59	23.15	23.07
		50	25	23.05	22.35	22.90
		50	50	23.47	21.49	22.57
		100	0	22.05	23.25	22.95

Band 5						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20407 824.7MHz	Channel 20525 836.5MHz	Channel 20643 848.3MHz
1.4MHz	QPSK	1	0	20.97	21.03	20.97
		1	2	19.62	19.97	19.39
		1	5	19.09	21.03	20.72
		3	0	20.33	21.72	20.71
		3	1	21.42	20.13	22.87
		3	2	19.98	20.4	20.71
		6	0	21.13	20.92	20.12
	16QAM	1	0	21.07	20.64	20.41
		1	2	19.92	20.76	20.8
		1	5	20.41	20.16	20.14
		3	0	21.56	20.04	21.56
		3	1	20.46	19.99	21.97
		3	2	21.27	20.39	21.57
		6	0	20.61	20.47	21.43
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20415 825.5MHz	Channel 20525 836.5MHz	Channel 20635 847.5MHz
3MHz	QPSK	1	0	20.38	20.84	20.53
		1	8	20.82	20.41	19.97
		1	14	20.99	19.84	20.44
		8	0	20.53	20.85	19.91
		8	4	19.2	20.3	21.79
		8	7	19.6	21.18	20.86
		15	0	20.61	18.82	20.72
	16QAM	1	0	20.87	21	20.6
		1	8	21.89	20.61	22.59
		1	15	20.14	20.03	21.24
		8	0	20.22	20.71	19.39
		8	4	19.88	20.47	20.26
		8	7	21.3	21.61	21.52
		15	0	20.89	22.19	20.22

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20425 826.5MHz	Channel 20525 836.5MHz	Channel 20625 846.5MHz
5MHz	QPSK	1	0	19.97	20.02	20.6
		1	13	20.72	19.7	19.86
		1	24	20.69	22.23	20.87
		12	0	21.78	21.48	19.57
		12	6	19.58	21.12	19.3
		12	13	21.5	21.35	20.48
		25	0	20.54	20.55	20.78
	16QAM	1	0	21.17	22.1	20.38
		1	13	20.82	20.45	19.64
		1	24	21.73	21.39	20.23
		12	0	21.2	21.18	19.66
		12	6	19.79	20.26	20.61
		12	13	20.51	19.5	21.38
		25	0	21.27	21.5	20.24
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20450 829MHz	Channel 20525 836.5MHz	Channel 20600 844.0MHz
10MHz	QPSK	1	0	20.23	19.65	20.19
		1	25	20.4	21.57	20.22
		1	49	20.49	21.25	21.57
		25	0	21.3	19.41	21.36
		25	13	19.98	19.63	19.73
		25	25	20.91	21.64	20.64
		50	0	20.09	21.15	19.95
	16QAM	1	0	19.83	19.63	19.61
		1	25	20.6	20.56	20.41
		1	49	20.41	21.47	21.41
		25	0	20.6	19.52	20.79
		25	13	20.57	21.51	21.51
		25	25	20.32	20.26	19.76
		50	0	21.24	20.17	19.94

Band 7						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20775 2502.5MHz	Channel 21100 2535MHz	Channel 21425 2567.5MHz
5MHz	QPSK	1	0	23.13	23.1	23.83
		1	13	22.62	22.89	21.8
		1	24	21.64	23.43	22.99
		12	0	22.84	22.81	22.6
		12	6	22.65	23.25	23.01
		12	13	22.96	23.1	22.9
		25	0	23.45	22.14	22.93
	16QAM	1	0	23.22	23.59	22.88
		1	13	22.54	21.72	22.08
		1	24	22.66	22.28	22.21
		12	0	23.18	23.14	22.85
		12	6	22.22	22.06	23.35
		12	13	24.26	23.55	24.33
		25	0	24.15	23.79	24.18
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20800 2505MHz	Channel 21100 2535MHz	Channel 21400 2565MHz
10MHz	QPSK	1	0	21.87	22.6	23.13
		1	25	23.72	22.32	21.33
		1	49	23.59	23.32	23.78
		25	0	22.93	23.32	23.99
		25	13	22.64	23.93	23.76
		25	25	22.95	22.79	21.75
		50	0	23.32	23.57	22.56
	16QAM	1	0	22.58	21.98	22.38
		1	25	23.75	23.33	22.81
		1	49	22.83	22.57	24.13
		25	0	24.14	24	24.06
		25	13	23.56	22.05	22.58
		25	25	22.45	22.55	23.23
		50	0	24.44	23.33	23.99

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20825 2507.5MHz	Channel 21100 2535MHz	Channel 21375 2562.5MHz
15MHz	QPSK	1	0	22.67	23.06	23.45
		1	38	23.25	21.48	22.65
		1	74	21.86	21.93	22.62
		36	0	22.16	23.56	22.13
		36	18	23.27	21.8	23.73
		36	39	24.15	22.55	22.59
		75	0	22.92	23.56	22.94
	16QAM	1	0	22.58	22.75	23.85
		1	38	23.84	23.3	23.54
		1	74	23.83	24.16	23.11
		36	0	22.24	23.73	22.27
		36	18	24.41	23.91	23.69
		36	39	23.63	23.04	23.66
		75	0	22.84	23.65	22.97
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
20MHz	QPSK	1	0	23.12	22.72	23.61
		1	50	21.74	22.63	22.99
		1	99	23.36	22.81	23.39
		50	0	22.11	22.66	24.38
		50	25	23.63	21.95	23.29
		50	50	21.65	22.63	23.08
		100	0	23.25	22.5	22.44
	16QAM	1	0	23.22	22.26	22.31
		1	50	24.19	22.51	22.74
		1	99	23.72	23.52	22.13
		50	0	23.78	22.41	22.05
		50	25	22.27	23.66	22.87
		50	50	23.84	22.93	24.24
		100	0	23.73	23.82	22.84

Band 17						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 23755 706.5MHz	Channel 23790 710MHz	Channel 23825 713.5MHz
5MHz	QPSK	1	0	21.04	21.08	21.04
		1	13	19.85	20.75	19.26
		1	24	19.17	21.05	20.54
		12	0	20.49	20.66	20.67
		12	6	19.83	20.93	20.5
		12	13	21.13	20.84	20.45
		25	0	21.66	20.42	21.22
	16QAM	1	0	20.87	21.38	20.71
		1	13	20.69	19.85	20.55
		1	24	20.67	20.19	20.42
		12	0	21.24	21.56	21.83
		12	6	19.86	19.74	21.3
		12	13	22.47	21.22	22.46
		25	0	20.85	20.45	21.19
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 23780 709MHz	Channel 23790 710MHz	Channel 23800 711MHz
10MHz	QPSK	1	0	22.13	22.67	23.03
		1	25	23.21	22.61	21.52
		1	49	23.68	22.87	23.59
		25	0	21.52	22.53	23.02
		25	13	21.33	22.93	22.63
		25	25	22.91	22.51	21.35
		50	0	22.66	22.28	21.57
	16QAM	1	0	21.64	21.28	21.74
		1	25	23.37	22.94	21.70
		1	49	21.63	21.41	23.06
		25	0	23.08	22.99	22.88
		25	13	24.17	22.27	22.69
		25	25	21.75	21.72	23.14
		50	0	22.81	22.55	22.77