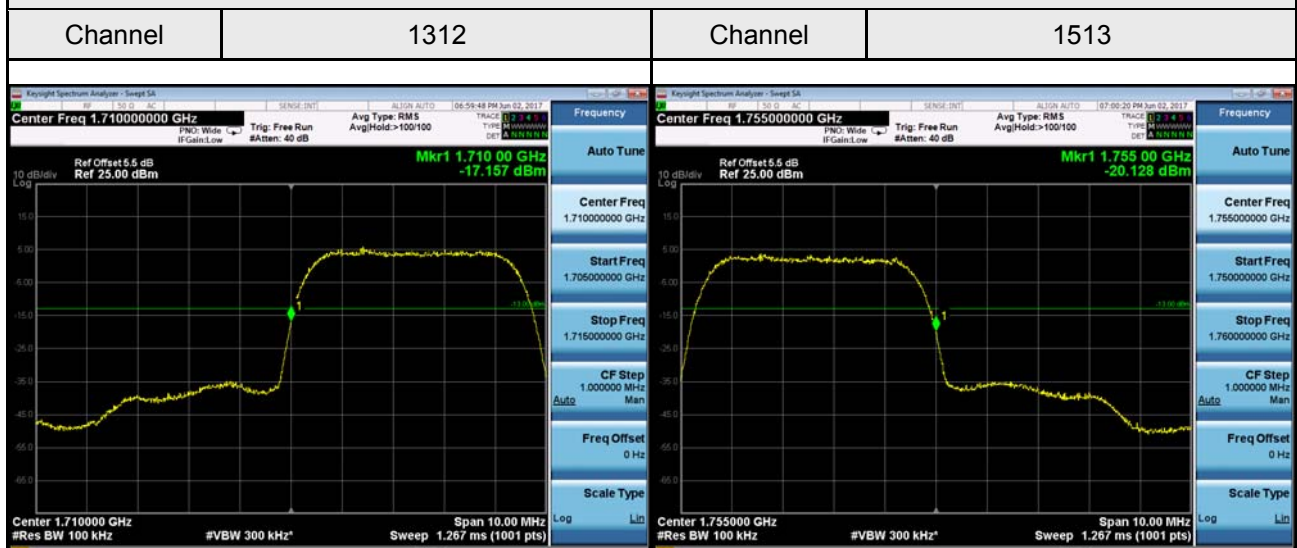
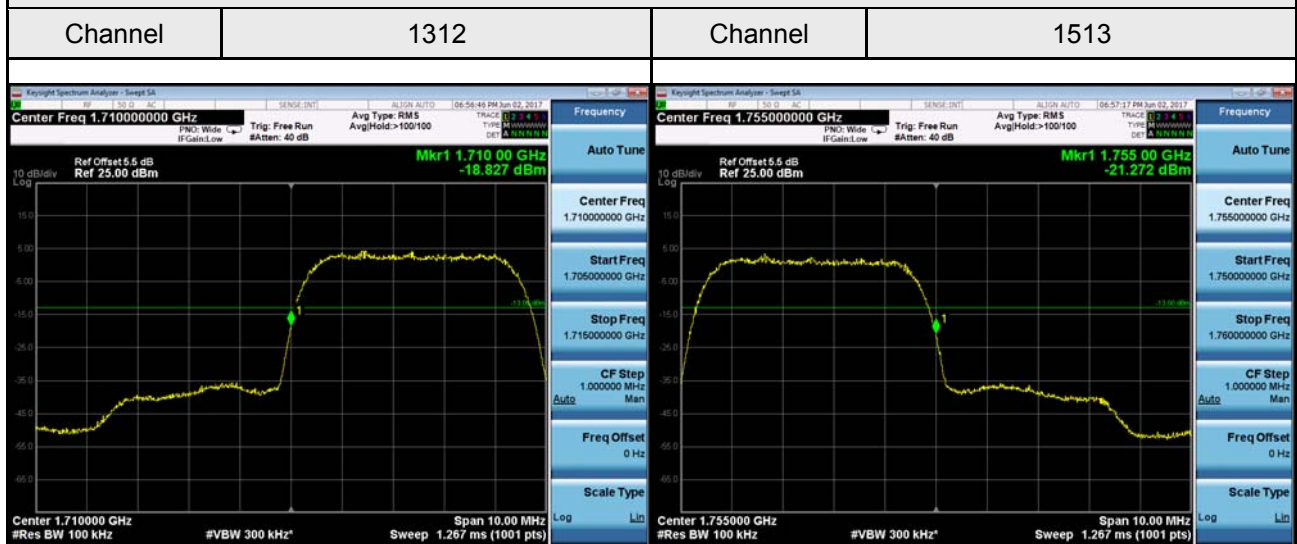


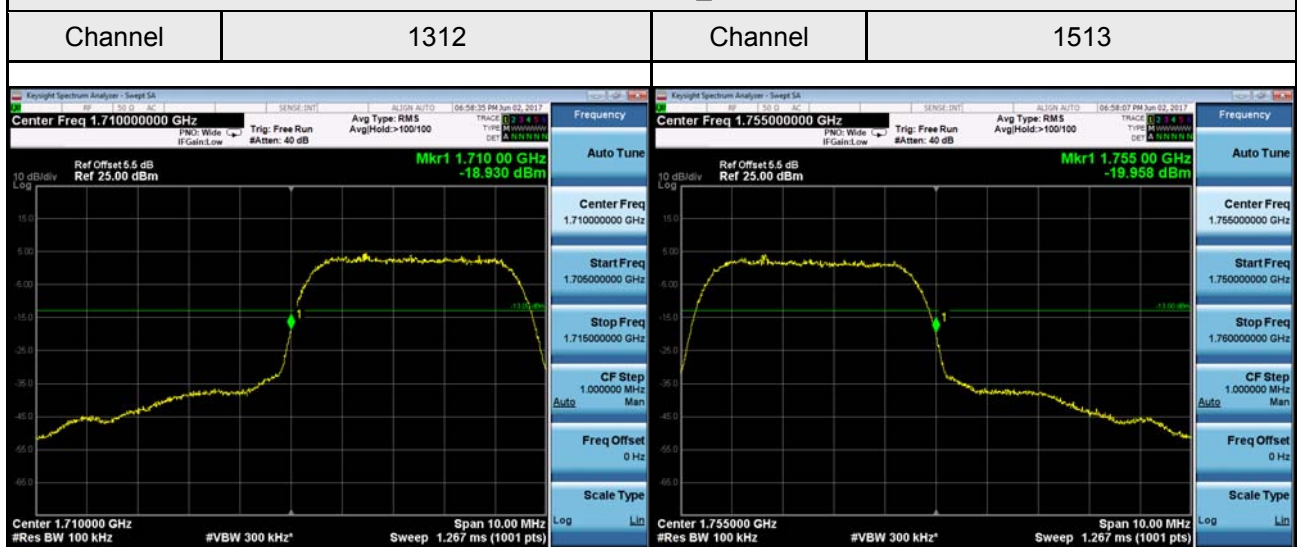
WCDMA Band 4_WCDMA



WCDMA Band 4_HSDPA

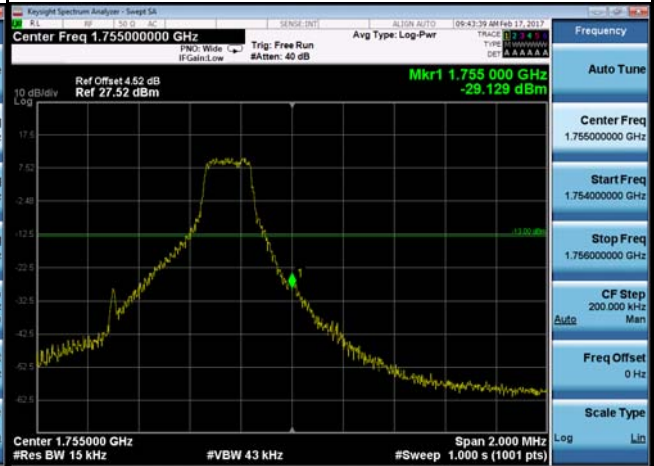
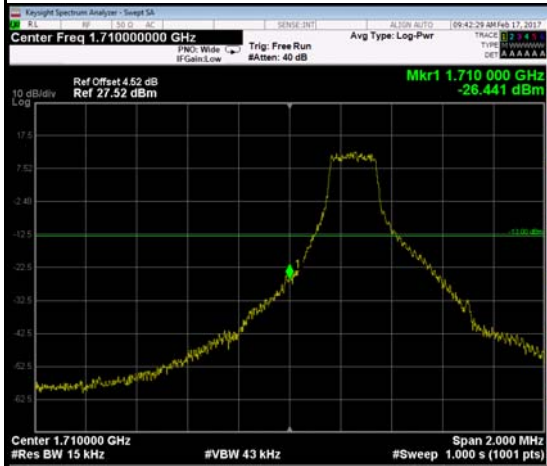


WCDMA Band 4_HSUPA



LTE Band 4_1.4M

1RB0		1RB5	
Channel	19957	Channel	20393



6RB0

Channel	19957	Channel	20393
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LTE Band 4_3M

1RB0

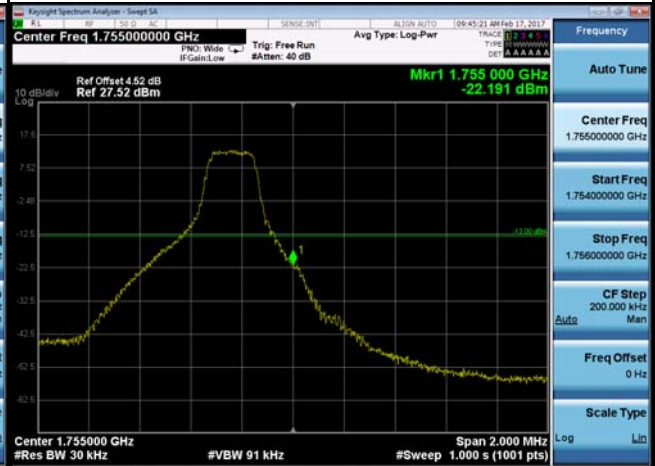
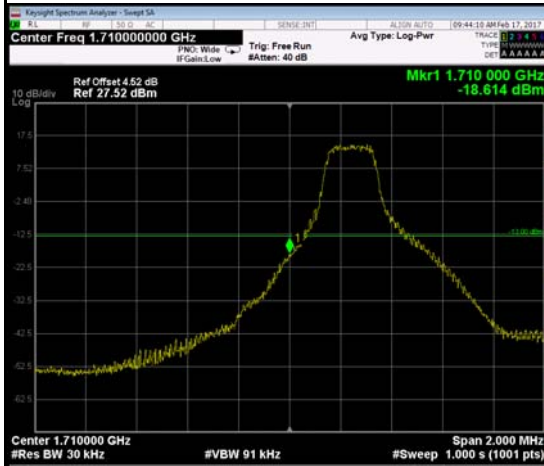
1RB14

Channel

19965

Channel

20385



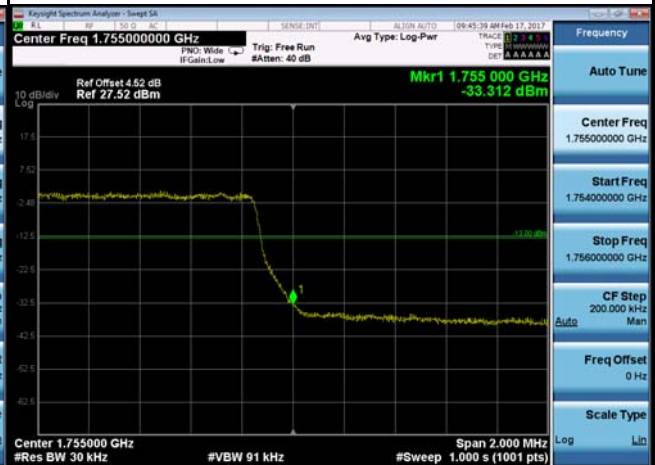
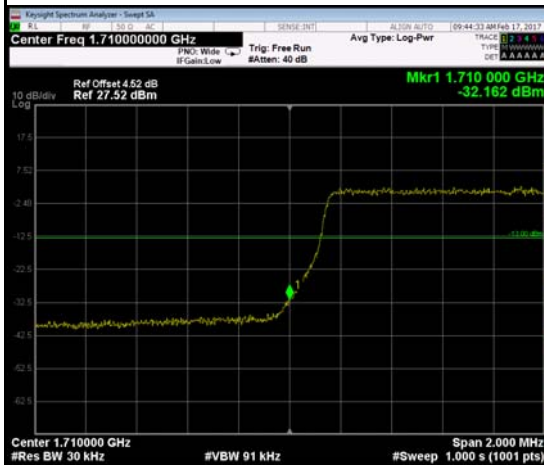
15RB0

Channel

19965

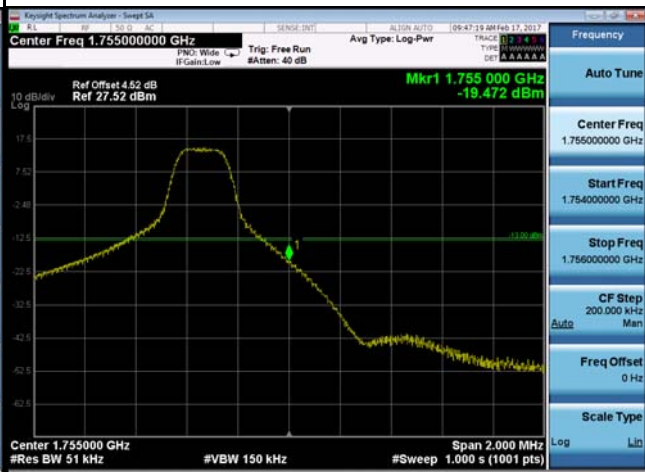
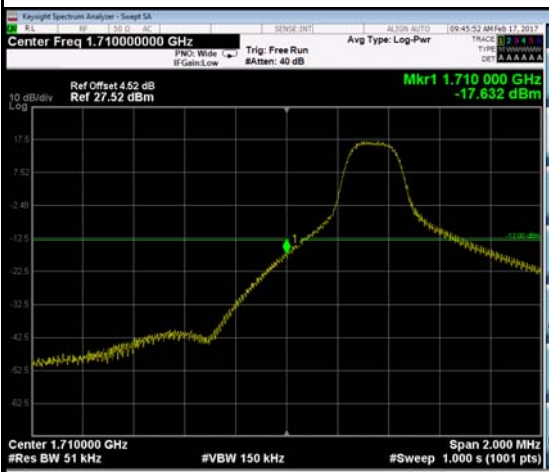
Channel

20385



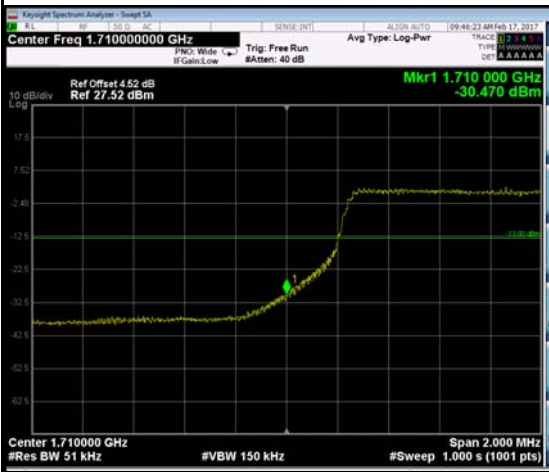
LTE Band 4_5M

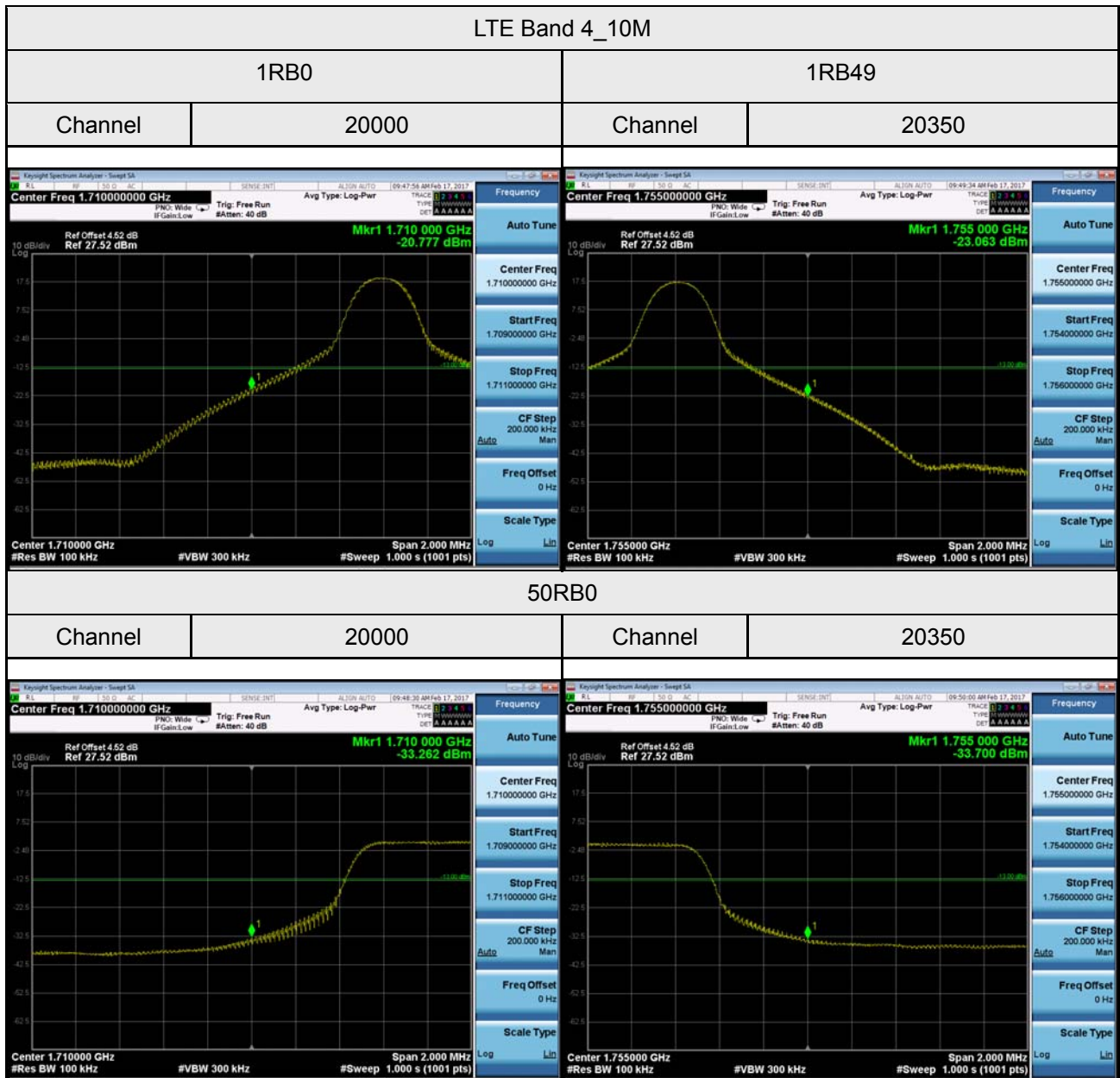
1RB0		1RB24	
Channel	19975	Channel	20375

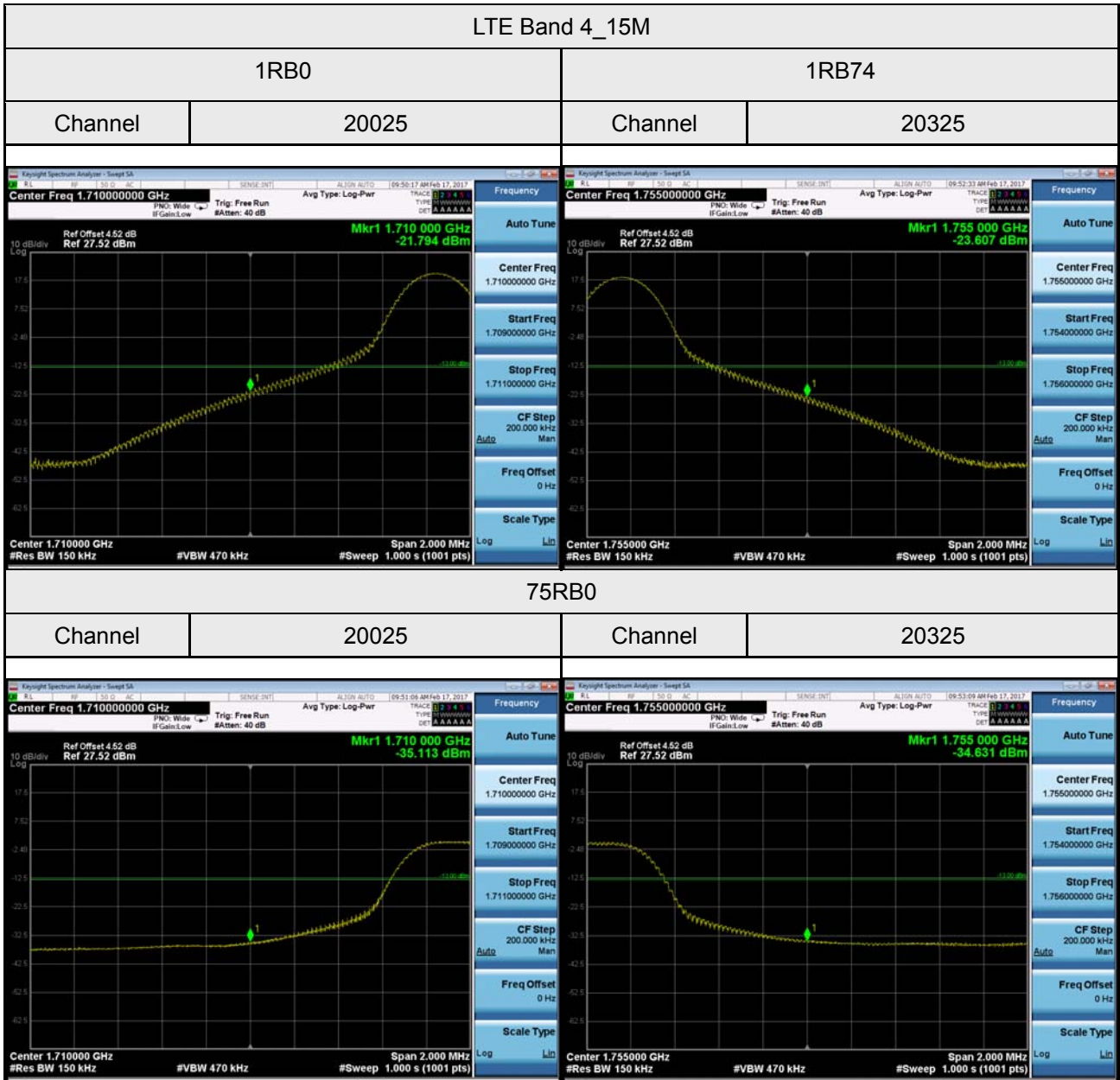


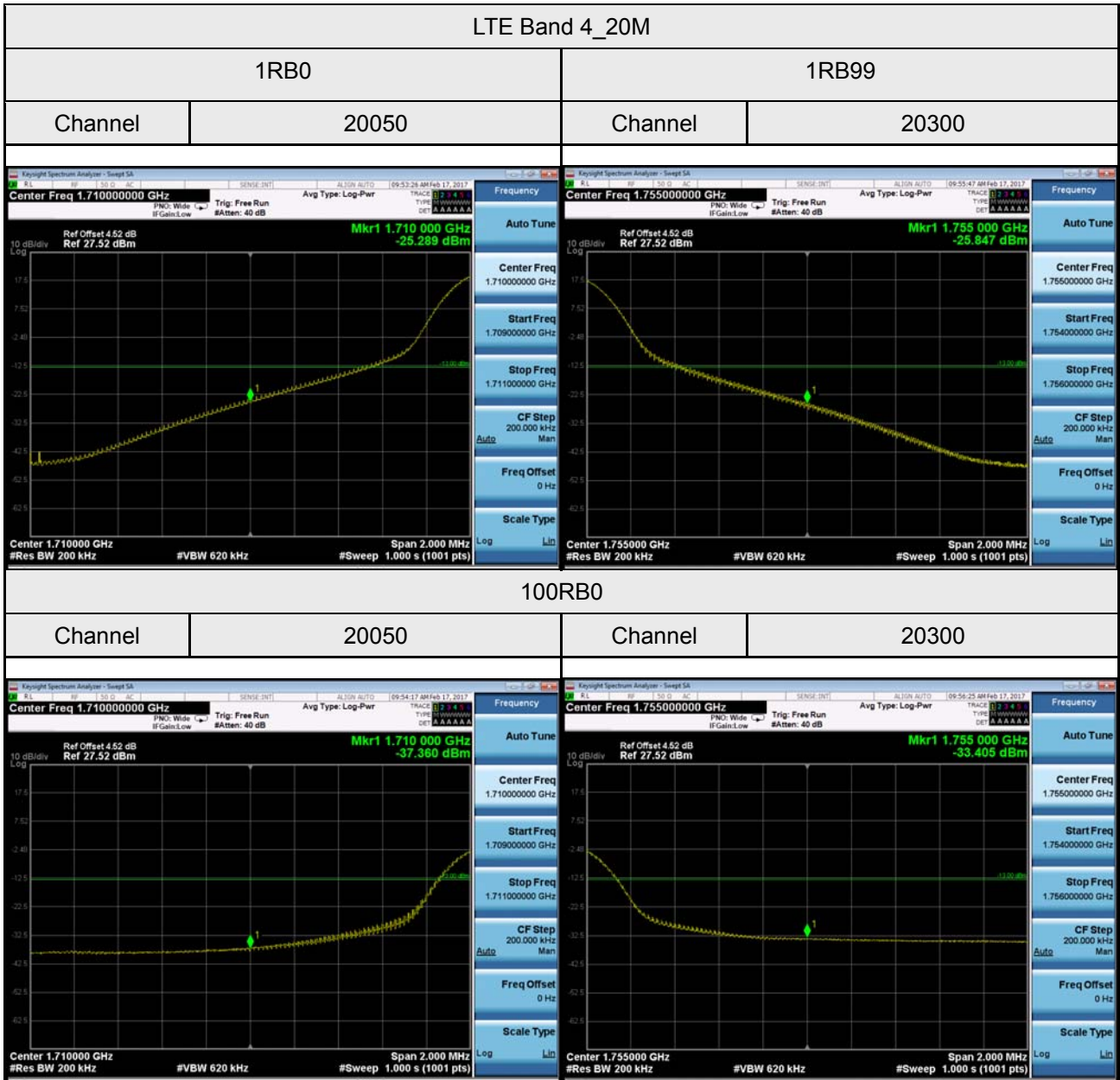
25RB0

Channel	19975	Channel	20375
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LTE Band 7_5M

1RB0

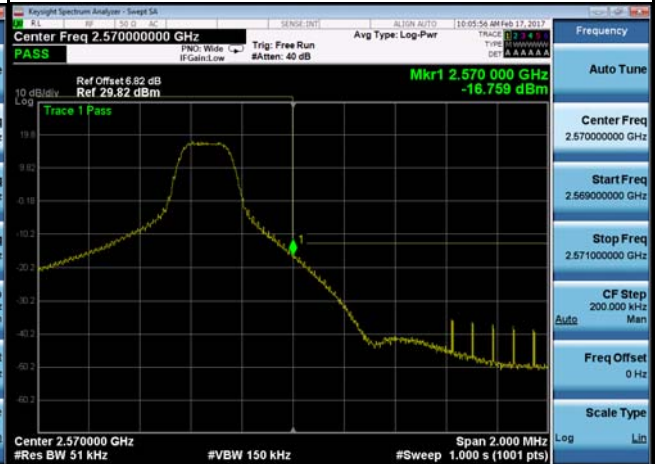
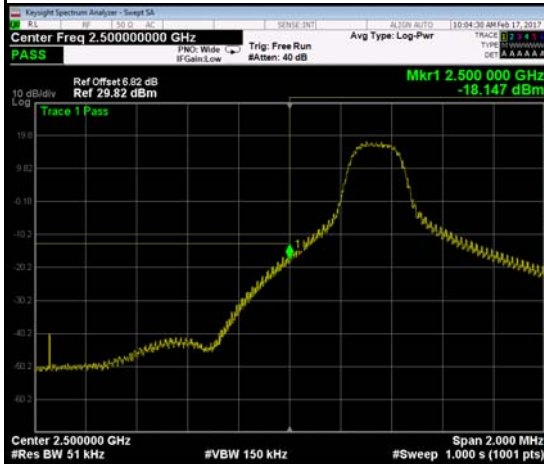
1RB24

Channel

20775

Channel

21425



25RB0

Channel

20775

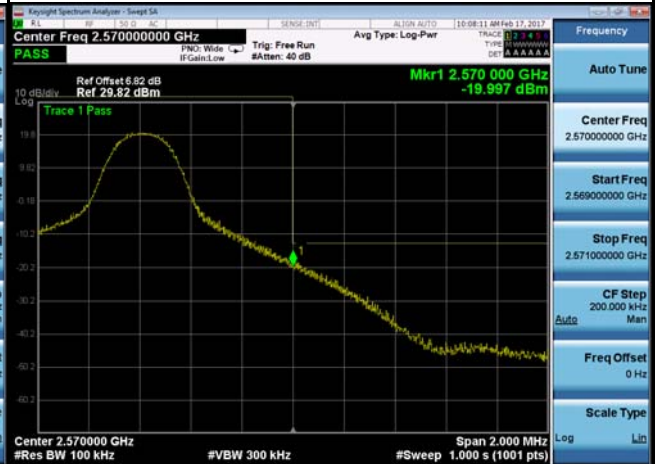
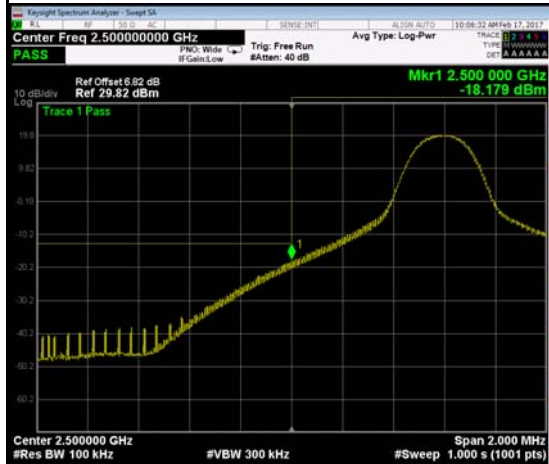
Channel

21425



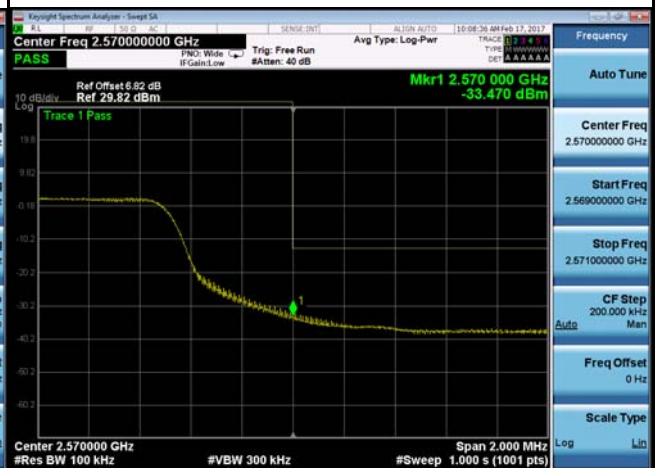
LTE Band 7_10M

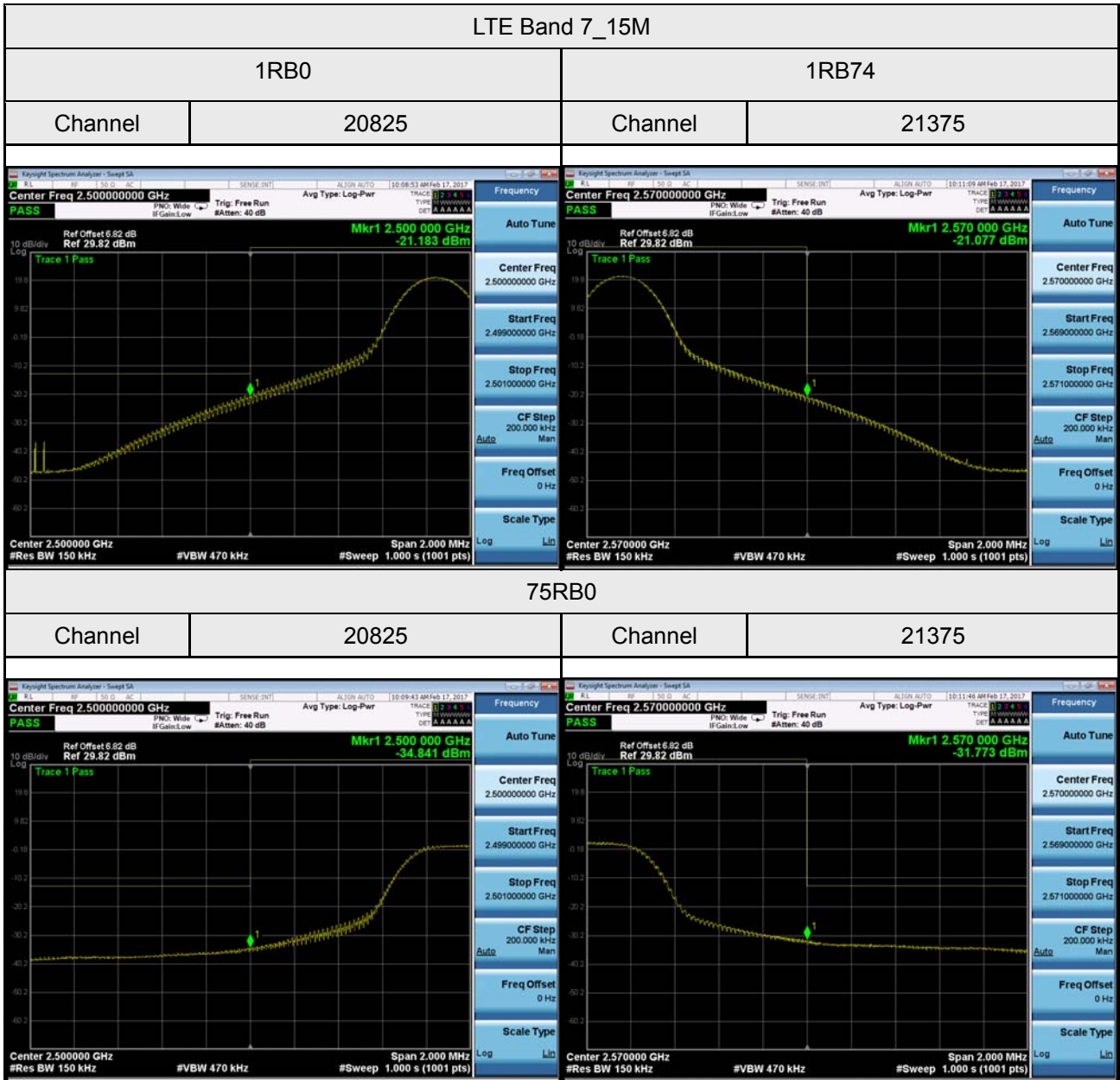
1RB0		1RB49	
Channel	20800	Channel	21400

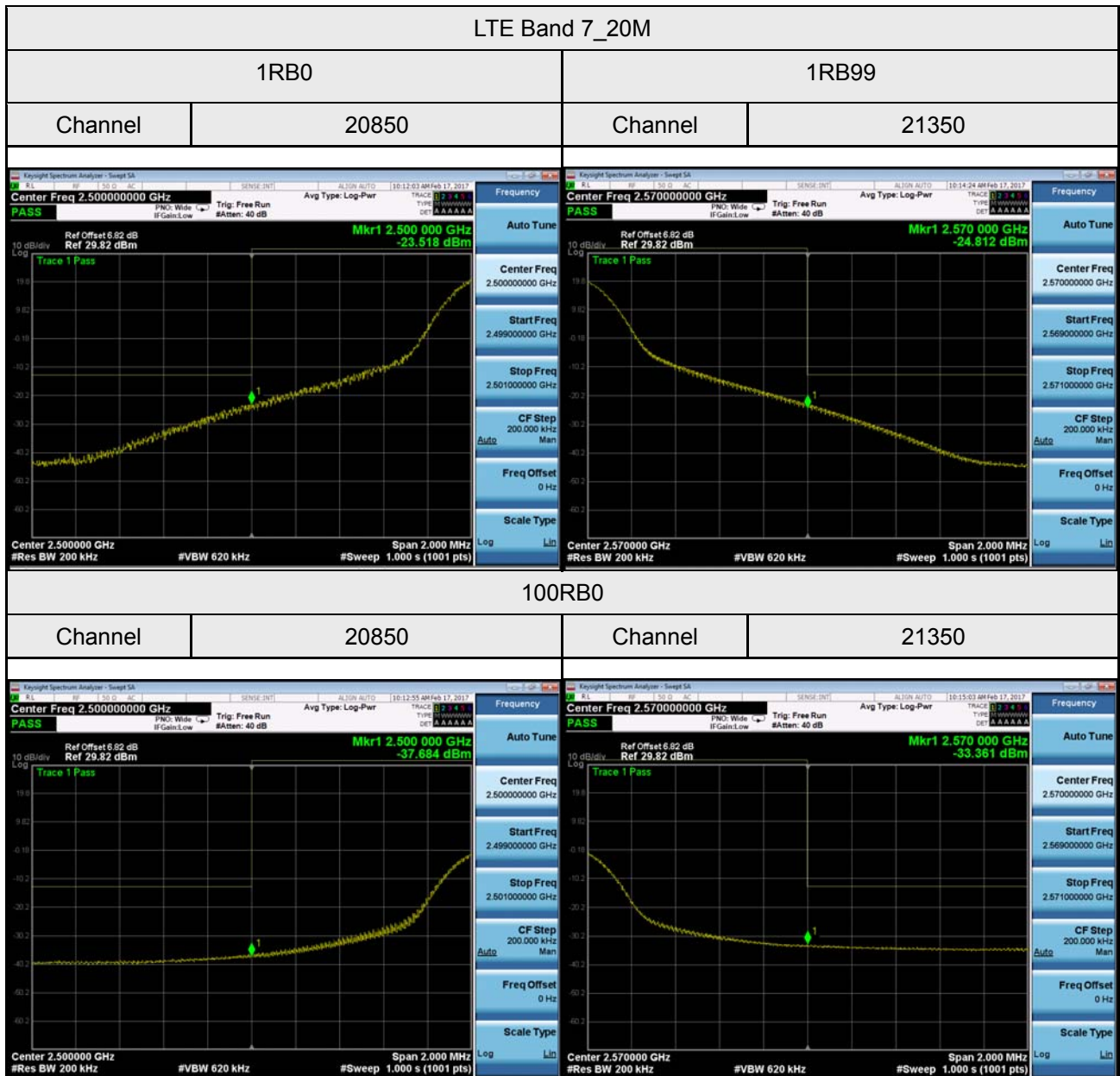


50RB0

20800		21400	
Channel	20800	Channel	21400

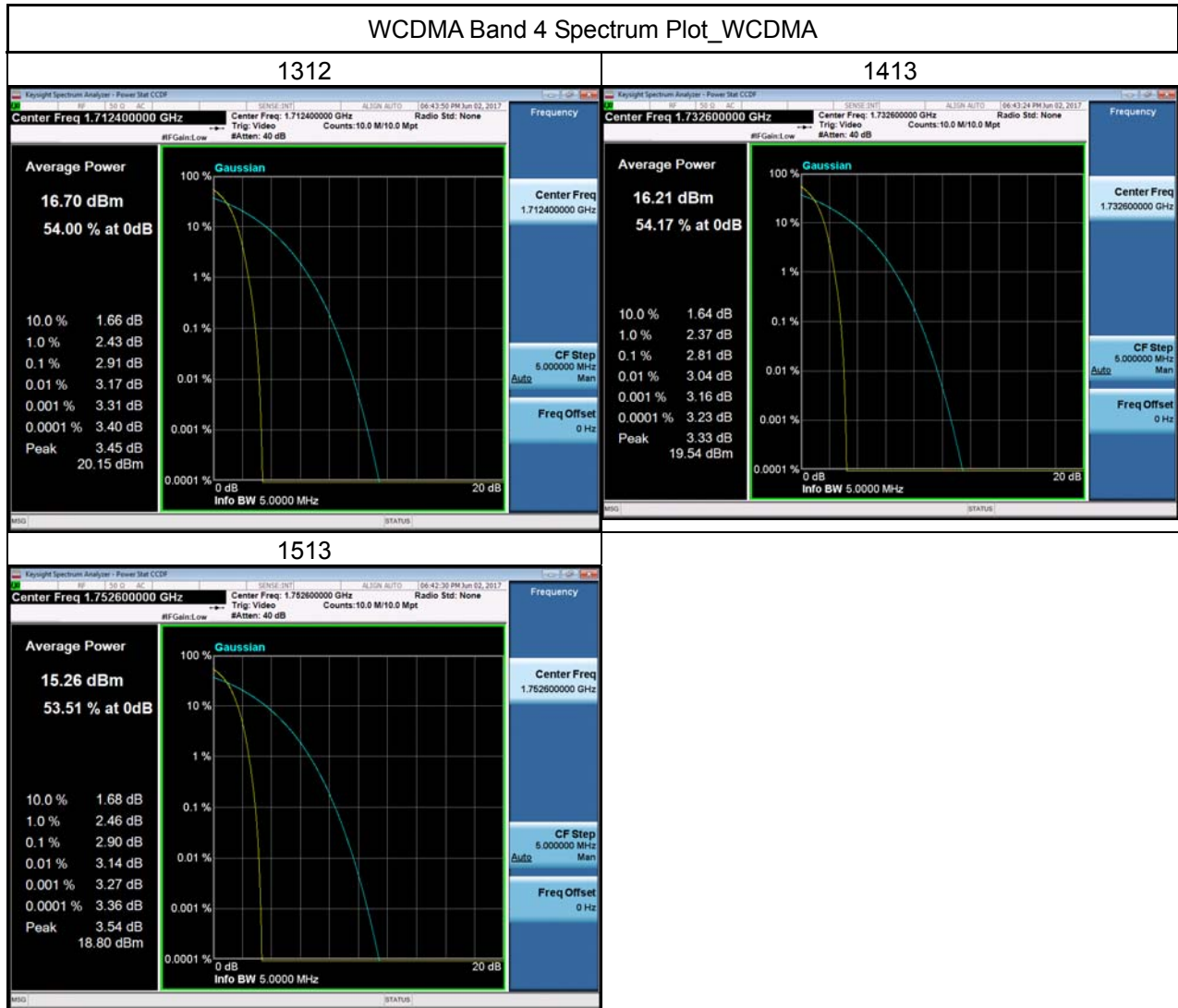




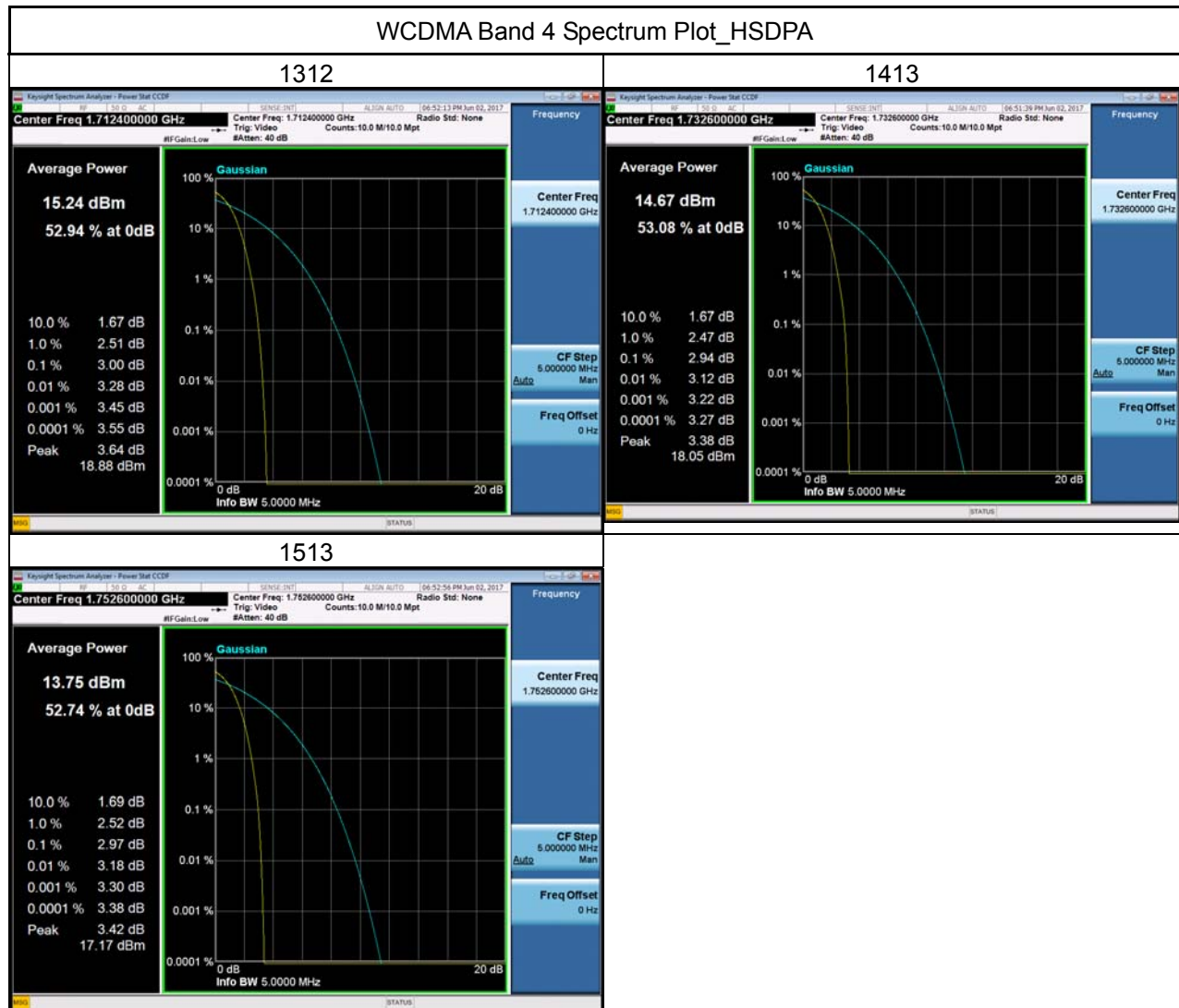


ATTACHMENT F - PEAK TO AVERAGE RATIO

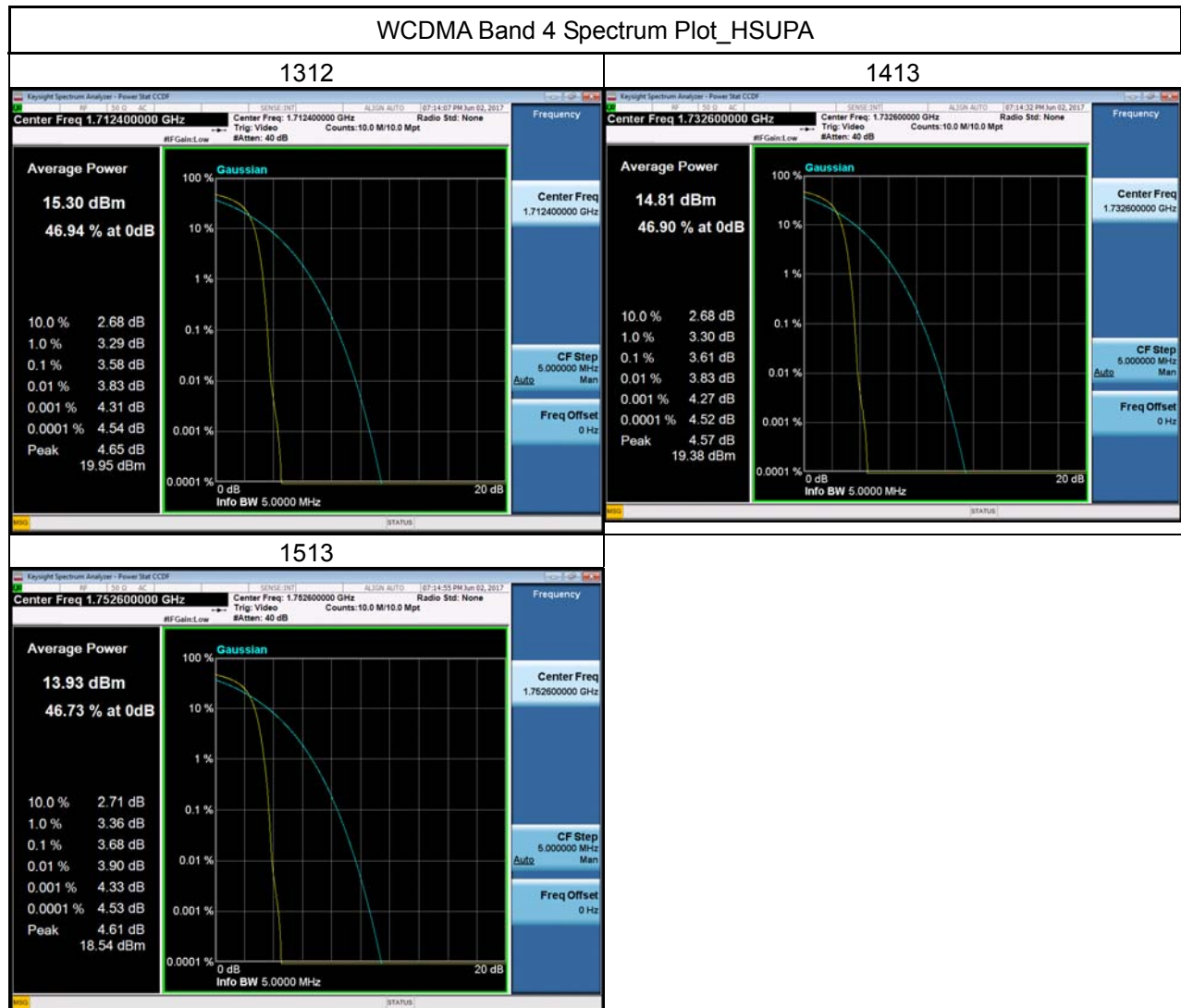
WCDMA Band 4 WCDMA			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
1312	1712.4	2.91	13
1413	1732.6	2.81	13
1513	1752.6	2.90	13



WCDMA Band 4 HSDPA			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
1312	1712.4	3.00	13
1413	1732.6	2.94	13
1513	1752.6	2.97	13



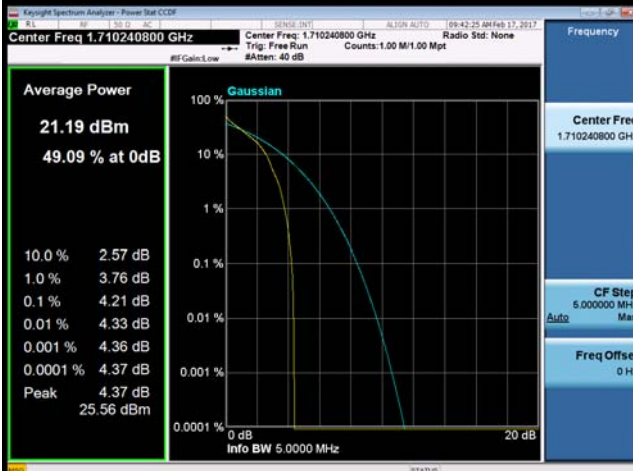
WCDMA Band 4 HSUPA			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
1312	1712.4	3.58	13
1413	1732.6	3.61	13
1513	1752.6	3.68	13



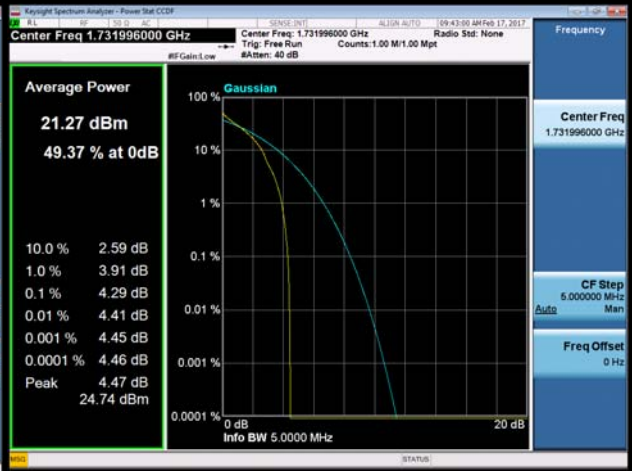
LTE Band 4_1.4M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
19957	1710.7	4.21	13	19957	1710.7	5.18	13
20175	1732.5	4.29	13	20175	1732.5	5.18	13
20393	1754.3	4.93	13	20393	1754.3	5.61	13

LTE Band 4 Spectrum Plot_1.4M

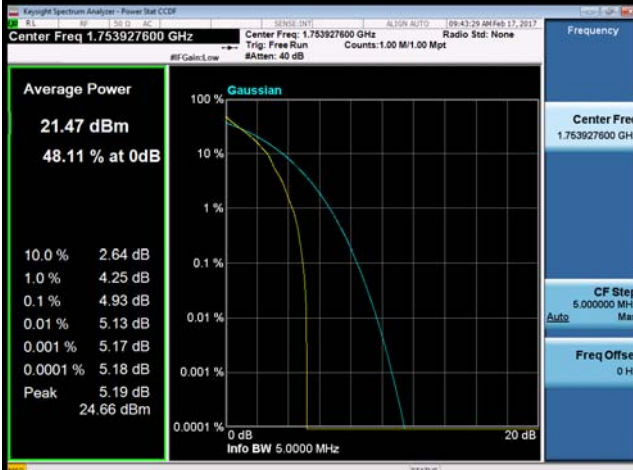
QPSK-19957



QPSK-20175



QPSK-20393



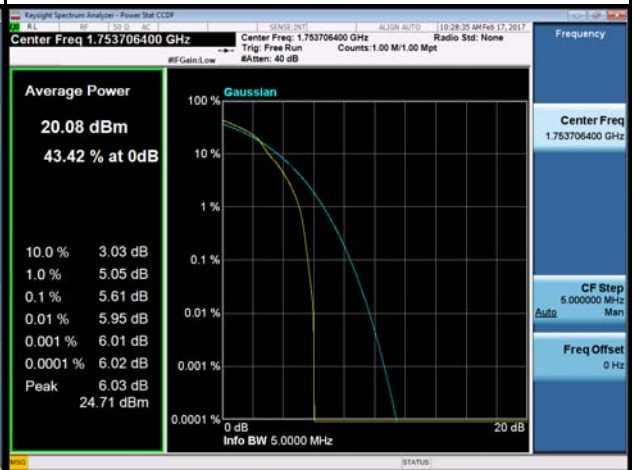
16QAM-19957



16QAM-20175



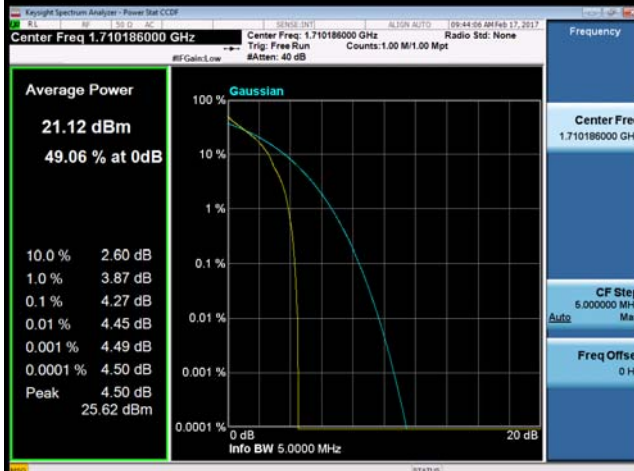
16QAM-20393



LTE Band 4_3M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
19965	1711.5	4.27	13	19965	1711.5	5.18	13
20175	1732.5	4.28	13	20175	1732.5	5.19	13
20385	1753.5	4.95	13	20385	1753.5	5.69	13

LTE Band 4 Spectrum Plot_3M

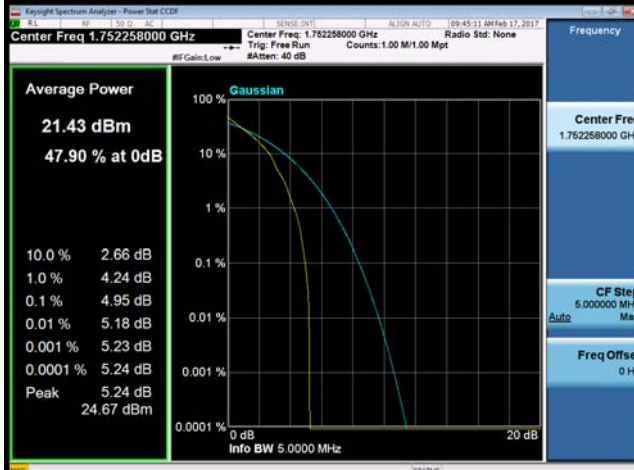
QPSK-19965



QPSK-20175



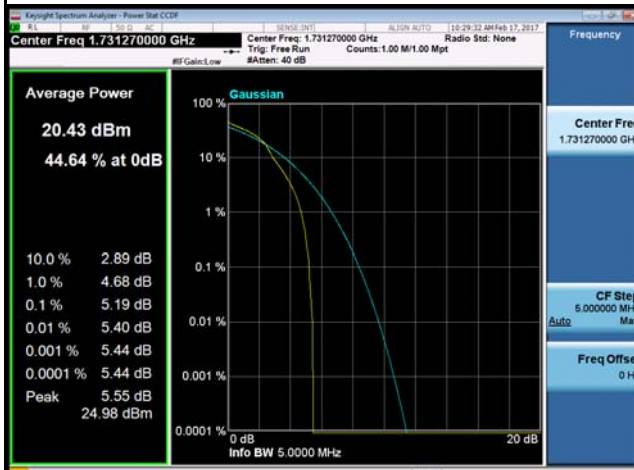
QPSK-20385



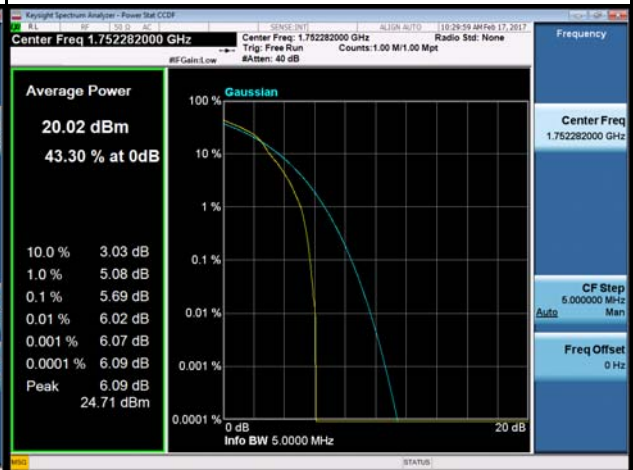
16QAM-19965



16QAM-20175



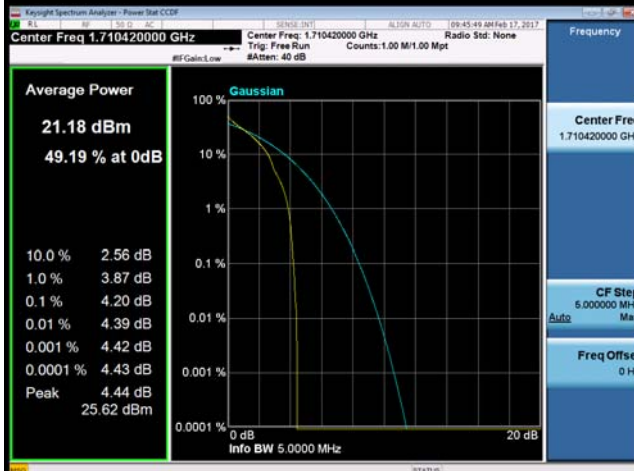
16QAM-20385



LTE Band 4_5M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
19975	1712.5	4.20	13	19975	1712.5	5.11	13
20175	1732.5	4.19	13	20175	1732.5	5.05	13
20375	1752.5	4.98	13	20375	1752.5	5.94	13

LTE Band 4 Spectrum Plot_5M

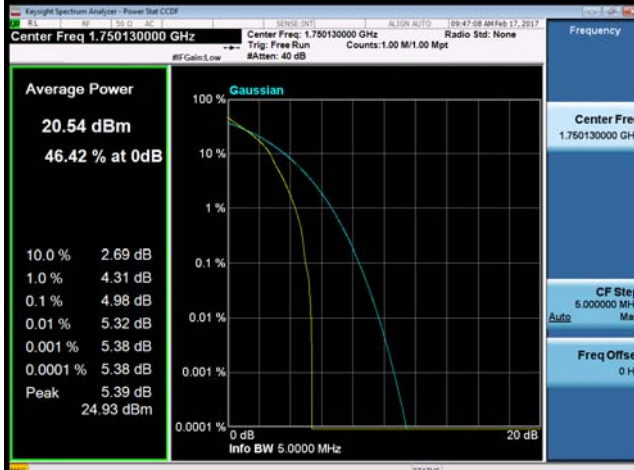
QPSK-19975



QPSK-20175



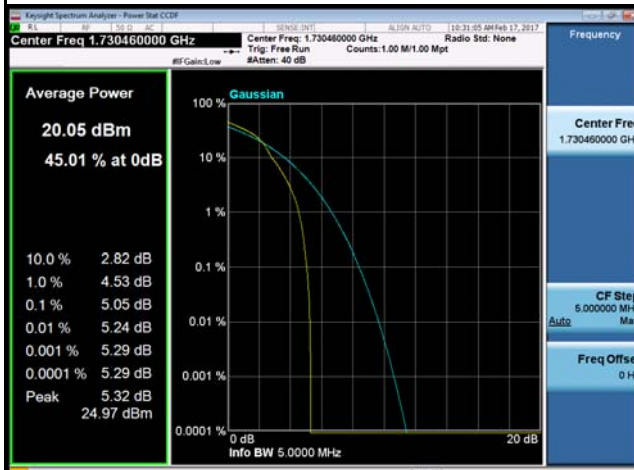
QPSK-20375



16QAM-19975



16QAM-20175



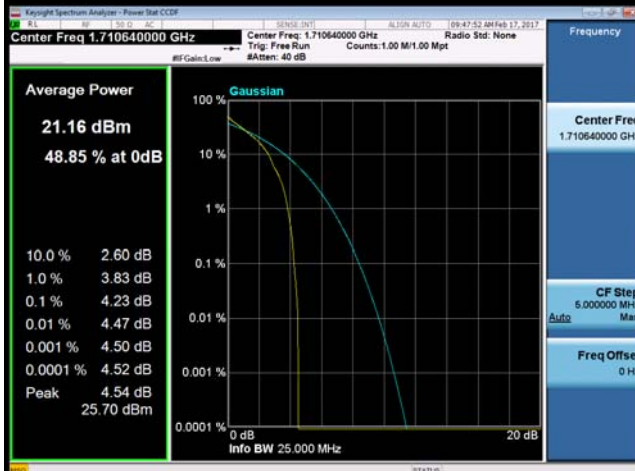
16QAM-20375



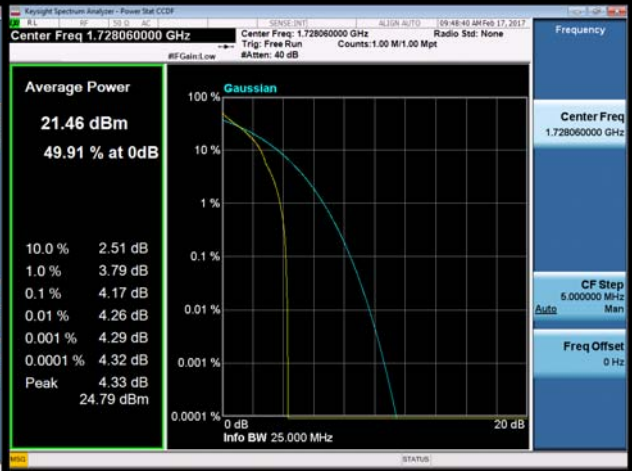
LTE Band 4_10M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20000	1715	4.23	13	20000	1715	5.15	13
20175	1732.5	4.17	13	20175	1732.5	5.01	13
20350	1750	5.06	13	20350	1750	5.83	13

LTE Band 4 Spectrum Plot_10M

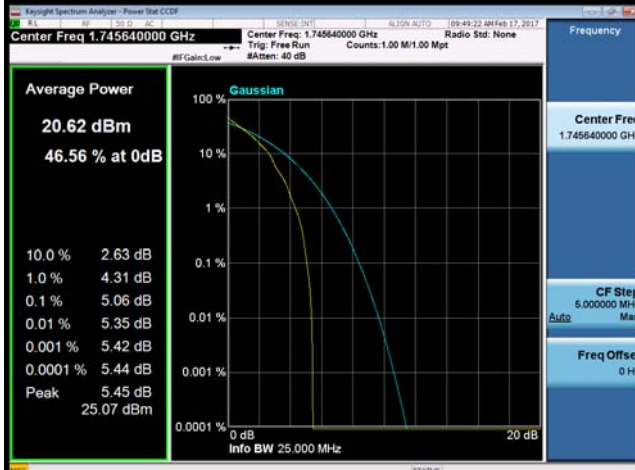
QPSK-20000



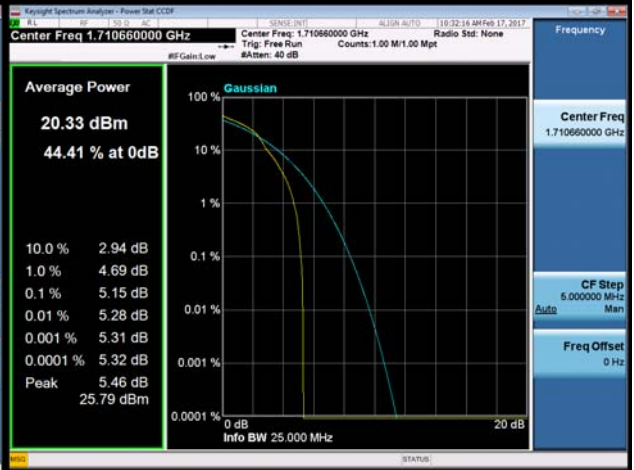
QPSK-20175



QPSK-20350



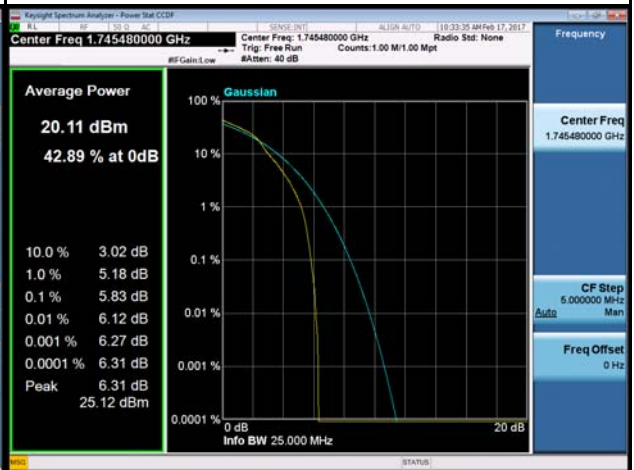
16QAM-20000



16QAM-20175



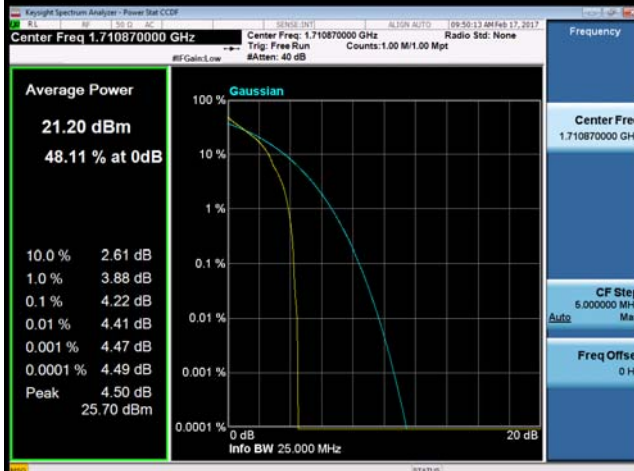
16QAM-20350



LTE Band 4_15M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20025	1717.5	4.22	13	20025	1717.5	5.07	13
20175	1732.5	4.26	13	20175	1732.5	5.08	13
20325	1747.5	4.82	13	20325	1747.5	5.91	13

LTE Band 4 Spectrum Plot_15M

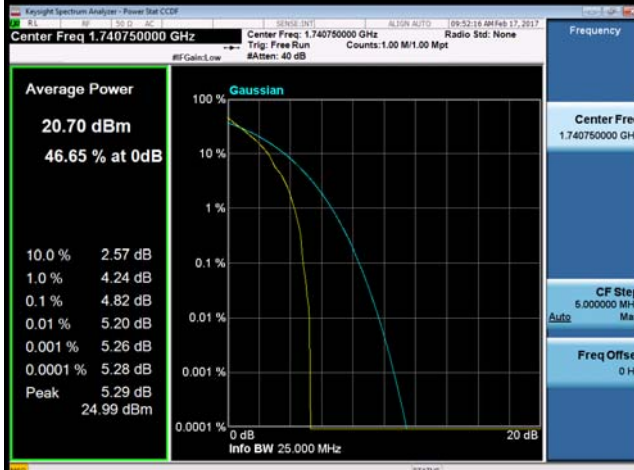
QPSK-20025



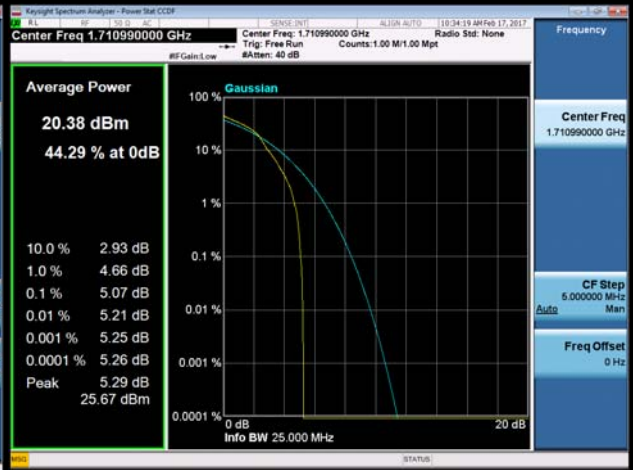
QPSK-20175



QPSK-20325



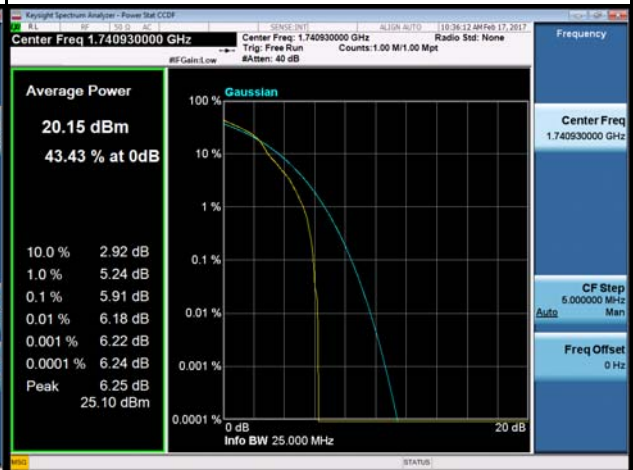
16QAM-20025



16QAM-20175



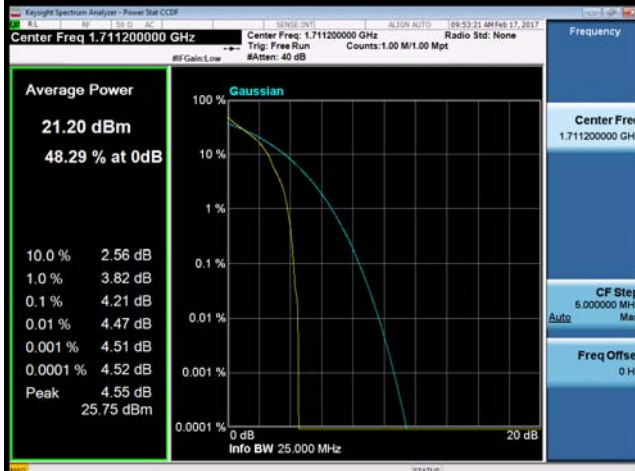
16QAM-20325



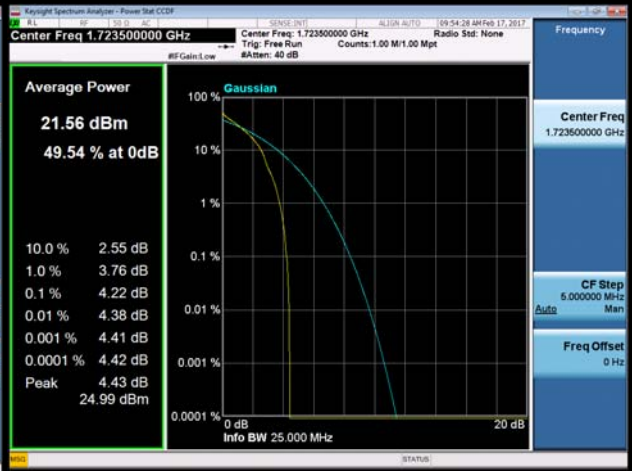
LTE Band 4_20M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20050	1720	4.21	13	20050	1720	5.04	13
20175	1732.5	4.22	13	20175	1732.5	5.15	13
20300	1745	4.57	13	20300	1745	5.41	13

LTE Band 4 Spectrum Plot_20M

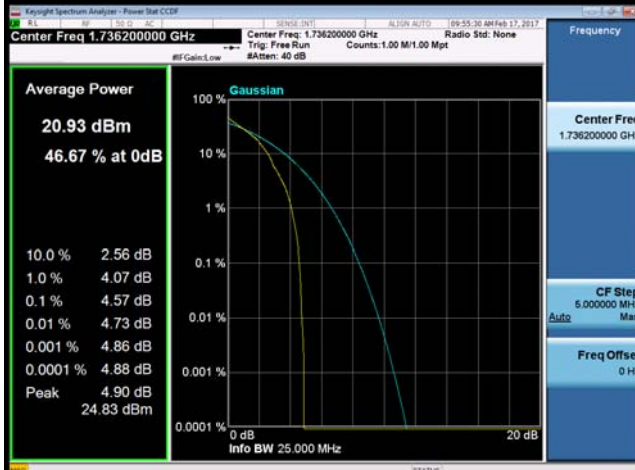
QPSK-20050



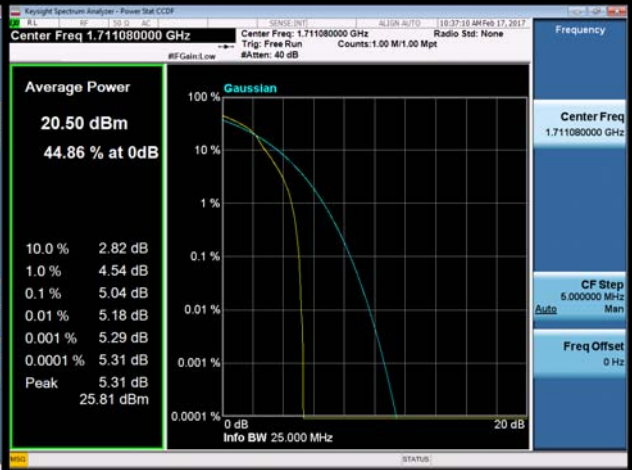
QPSK-20175



QPSK-20300



16QAM-20050



16QAM-20175



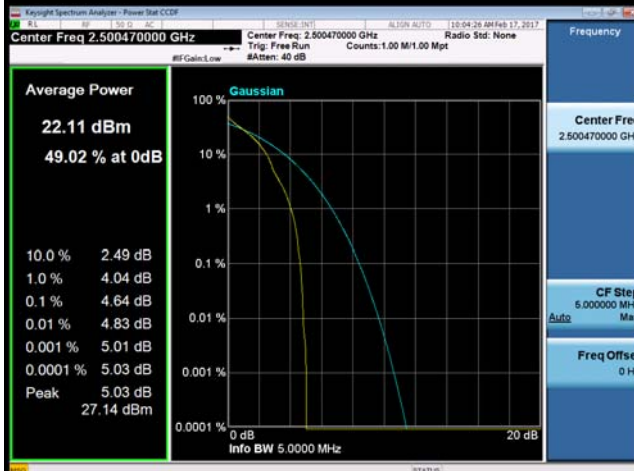
16QAM-20300



LTE Band 7_5M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20775	2502.5	4.64	13	20775	2502.5	5.61	13
21100	2535	4.89	13	21100	2535	5.93	13
21425	2567.5	4.10	13	21425	2567.5	5.08	13

LTE Band 7 Spectrum Plot_5M

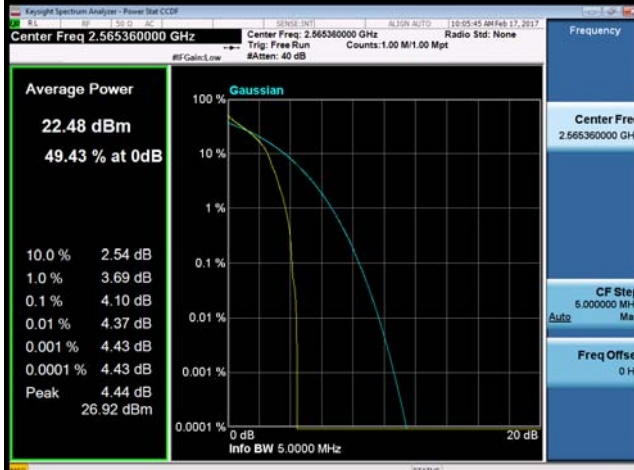
QPSK-20775



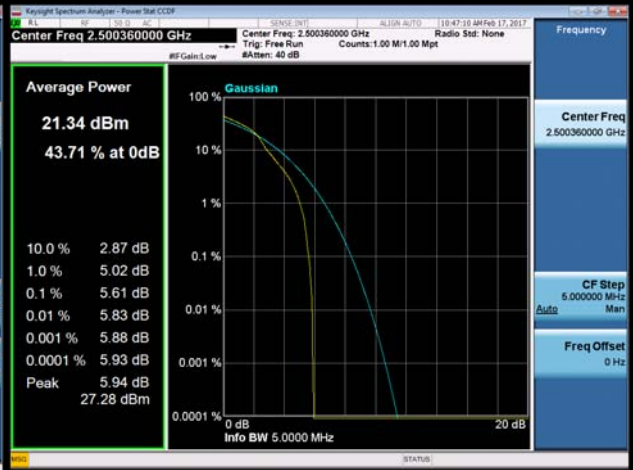
QPSK-21100



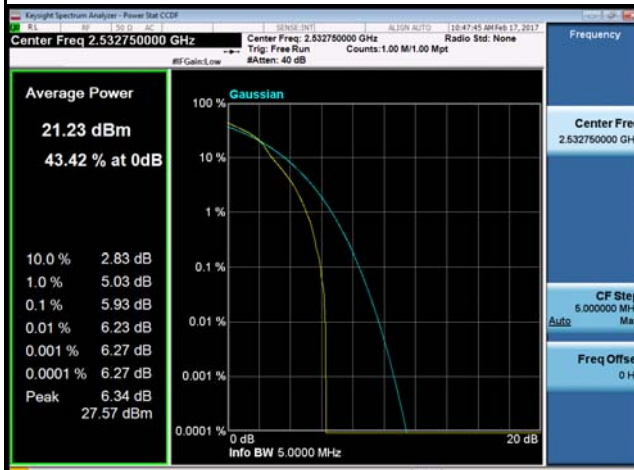
QPSK-21425



16QAM-20775



16QAM-21100



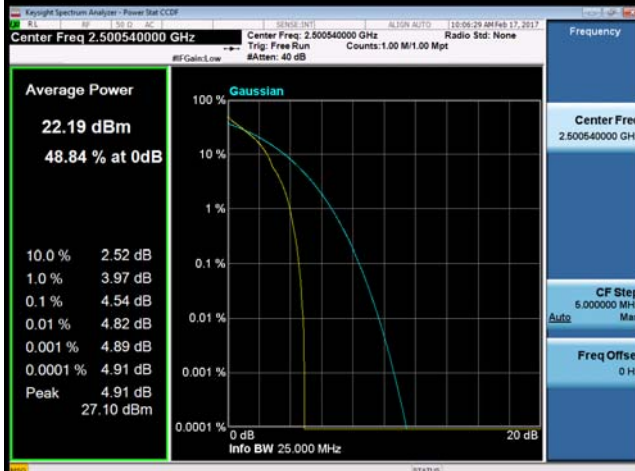
16QAM-21425



LTE Band 7_10M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20800	2505	4.54	13	20800	2505	5.51	13
21100	2535	4.97	13	21100	2535	5.92	13
21400	2565	3.57	13	21400	2565	4.44	13

LTE Band 7 Spectrum Plot_10M

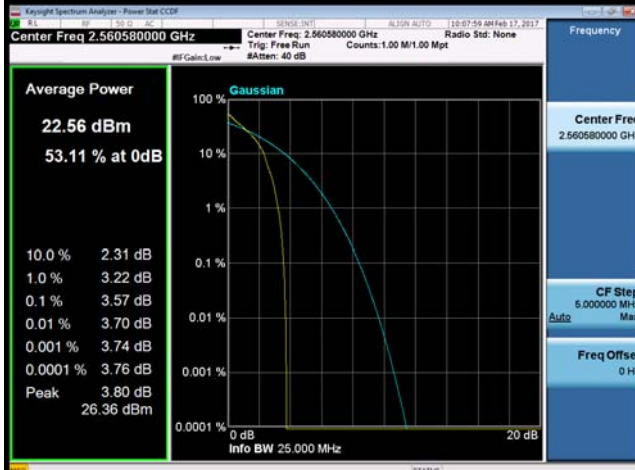
QPSK-20800



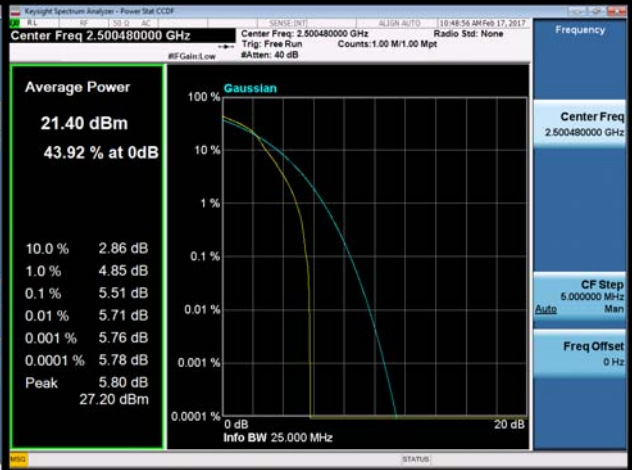
QPSK-21100



QPSK-21400



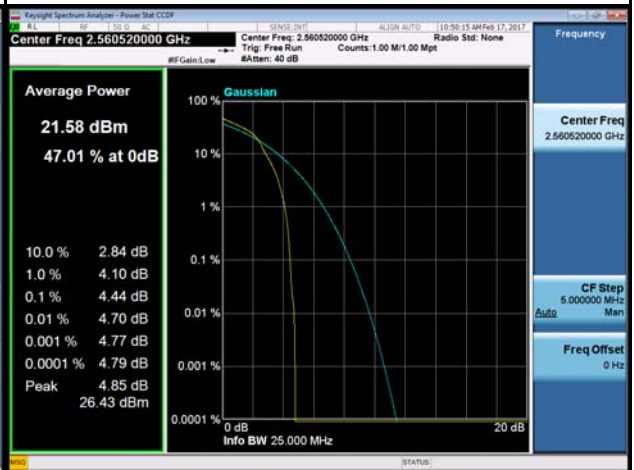
16QAM-20800



16QAM-21100



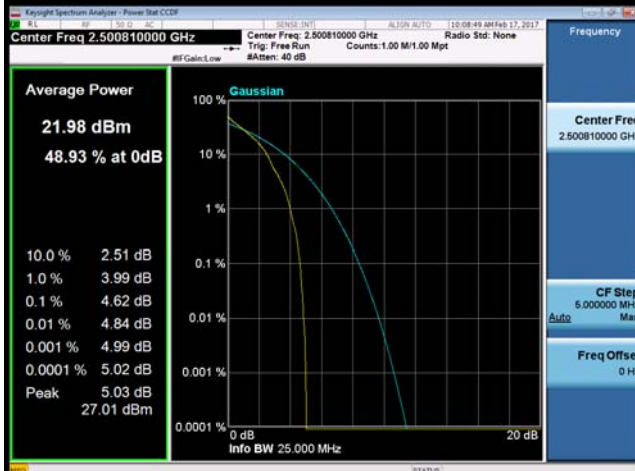
16QAM-21400



LTE Band 7_15M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20825	2507.5	4.62	13	20825	2507.5	5.58	13
21100	2535	4.82	13	21100	2535	5.72	13
21375	2562.5	3.33	13	21375	2562.5	4.39	13

LTE Band 7 Spectrum Plot_15M

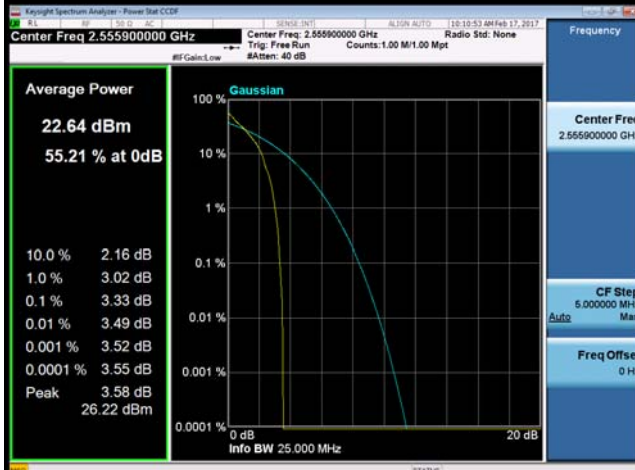
QPSK-20825



QPSK-21100



QPSK-21375



16QAM-20825



16QAM-21100



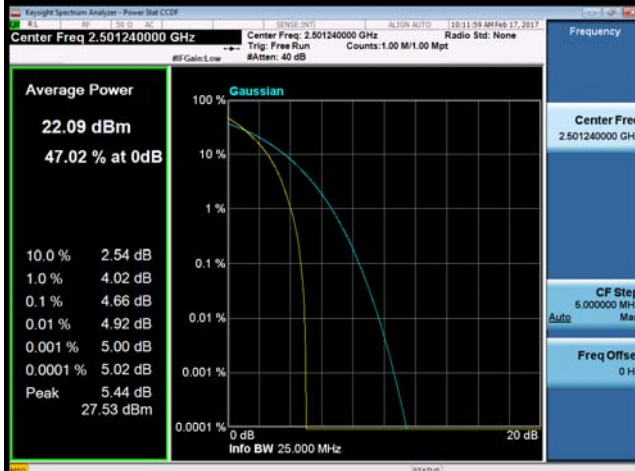
16QAM-21375



LTE Band 7_20M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20850	2510	4.66	13	20850	2510	5.41	13
21100	2535	4.70	13	21100	2535	5.71	13
21350	2560	3.32	13	21350	2560	4.56	13

LTE Band 7 Spectrum Plot_20M

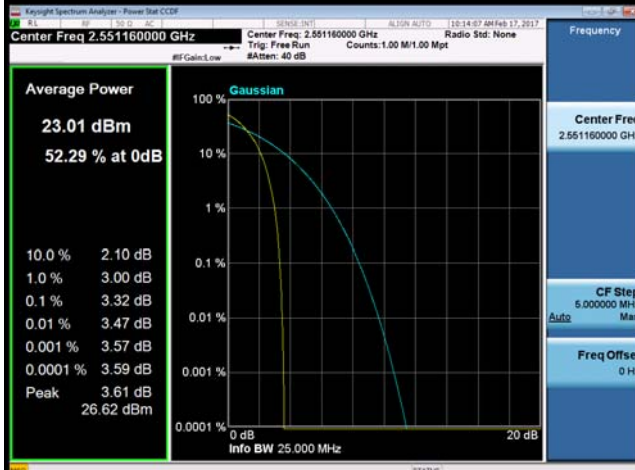
QPSK-20850



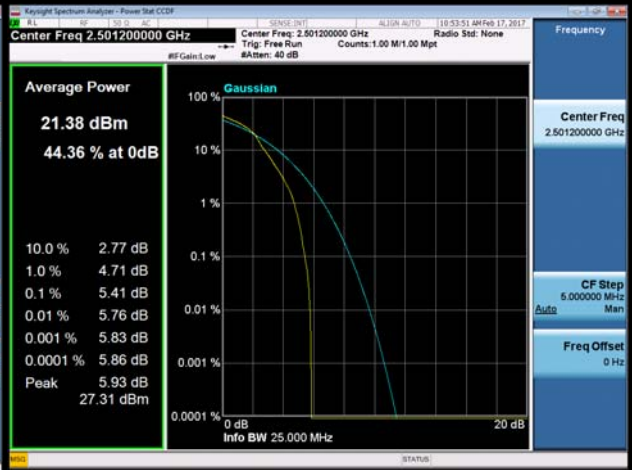
QPSK-21100



QPSK-21350



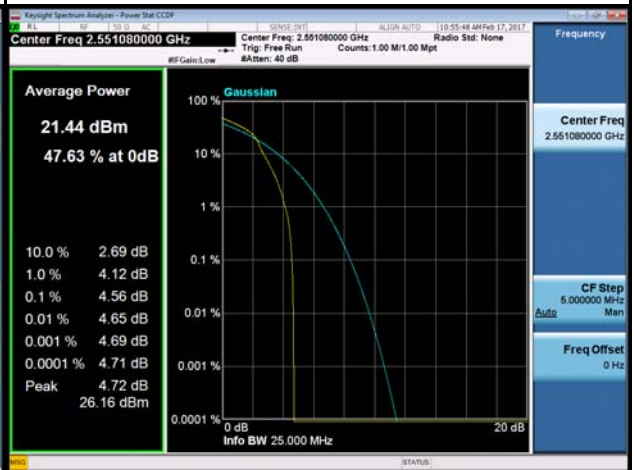
16QAM-20850



16QAM-21100



16QAM-21350



ATTACHMENT G - FREQUENCY STABILITY

Test Mode:	WCDMA Band 4_CH1413
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	7.69	0.004438416	2.5
5	8.54	0.004929008	2.5
10	7.66	0.004421101	2.5
15	9.05	0.005223364	2.5
20	7.47	0.004311439	2.5
25	7.28	0.004201778	2.5
30	8.34	0.004813575	2.5
35	9.13	0.005269537	2.5
Max. Deviation (ppm)	9.13	0.005269537	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
Low	8.89	0.005131017	2.5
Middle	9.32	0.005379199	2.5
High	8.52	0.004917465	2.5
Max. Deviation (ppm)	9.32	0.005379199	2.5

Test Mode:	LTE Band 4_CH20175_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.88	0.002239538	2.5
5	2.56	0.001477633	2.5
10	-3.45	0.001991342	2.5
15	6.37	0.003676768	2.5
20	1.78	0.001027417	2.5
25	-2.33	0.001344877	2.5
30	-4.12	0.002378066	2.5
35	3.48	0.002008658	2.5
Max. Deviation (ppm)	6.37	0.003676768	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.15	0.001240981	2.5
4.0	3.67	0.002118326	2.5
4.2	2.09	0.001206349	2.5
Max. Deviation (ppm)	3.67	0.002118326	2.5

Test Mode:	LTE Band 4_CH20175_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-2.69	0.00155267	2.5
5	-3.33	0.001922078	2.5
10	5.69	0.003284271	2.5
15	4.59	0.002649351	2.5
20	2.36	0.001362193	2.5
25	-6.32	0.003647908	2.5
30	5.79	0.003341991	2.5
35	5.51	0.003180375	2.5
Max. Deviation (ppm)	6.32	0.003647908	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.28	0.000738817	2.5
4.0	-2.60	0.001500722	2.5
4.2	-5.34	0.003082251	2.5
Max. Deviation (ppm)	5.34	0.003082251	2.5

Test Mode:	LTE Band 4_CH20175_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.22	0.001858586	2.5
5	-1.48	0.000854257	2.5
10	1.83	0.001056277	2.5
15	-2.36	0.001362193	2.5
20	5.68	0.003278499	2.5
25	-4.56	0.002632035	2.5
30	1.84	0.001062049	2.5
35	3.66	0.002112554	2.5
Max. Deviation (ppm)	5.68	0.003278499	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	6.77	0.003907648	2.5
4.0	-5.03	0.002903319	2.5
4.2	4.16	0.002401154	2.5
Max. Deviation (ppm)	6.77	0.003907648	2.5

Test Mode:	LTE Band 4_CH20175_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	4.56	0.002632035	2.5
5	-3.92	0.002262626	2.5
10	-1.89	0.001090909	2.5
15	1.33	0.000767677	2.5
20	-2.68	0.001546898	2.5
25	-2.45	0.001414141	2.5
30	3.18	0.001835498	2.5
35	5.87	0.003388167	2.5
Max. Deviation (ppm)	5.87	0.003388167	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	3.75	0.002164502	2.5
4.0	-1.03	0.000594517	2.5
4.2	2.62	0.001512266	2.5
Max. Deviation (ppm)	3.75	0.002164502	2.5

Test Mode:	LTE Band 4_CH20175_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	4.32	0.002493506	2.5
5	2.14	0.001235209	2.5
10	-6.08	0.00350938	2.5
15	2.33	0.001344877	2.5
20	-5.88	0.003393939	2.5
25	2.09	0.001206349	2.5
30	3.73	0.002152958	2.5
35	4.10	0.002366522	2.5
Max. Deviation (ppm)	6.08	0.00350938	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.51	0.003180375	2.5
4.0	6.38	0.00368254	2.5
4.2	-2.10	0.001212121	2.5
Max. Deviation (ppm)	6.38	0.00368254	2.5

Test Mode:	LTE Band 4_CH20175_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	2.39	0.001379509	2.5
5	5.25	0.003030303	2.5
10	-5.42	0.003128427	2.5
15	2.30	0.001327561	2.5
20	5.08	0.002932179	2.5
25	4.09	0.00236075	2.5
30	4.11	0.002372294	2.5
35	7.77	0.004484848	2.5
Max. Deviation (ppm)	7.77	0.004484848	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.34	0.003082251	2.5
4.0	2.13	0.001229437	2.5
4.2	4.82	0.002782107	2.5
Max. Deviation (ppm)	5.34	0.003082251	2.5

Test Mode:	LTE Band 7_CH21100_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.20	0.001262327	2.5
5	-6.24	0.002461538	2.5
10	1.98	0.000781065	2.5
15	-3.99	0.001573964	2.5
20	1.07	0.000422091	2.5
25	5.16	0.002035503	2.5
30	2.34	0.000923077	2.5
35	-1.99	0.00078501	2.5
Max. Deviation (ppm)	6.24	0.002461538	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	6.64	0.002619329	2.5
4.0	6.27	0.002473373	2.5
4.2	3.57	0.001408284	2.5
Max. Deviation (ppm)	6.64	0.002619329	2.5

Test Mode:	LTE Band 7_CH21100_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.22	0.001270217	2.5
5	6.14	0.002422091	2.5
10	-6.97	0.002749507	2.5
15	3.28	0.001293886	2.5
20	3.74	0.001475345	2.5
25	-4.61	0.00181854	2.5
30	5.14	0.002027613	2.5
35	3.24	0.001278107	2.5
Max. Deviation (ppm)	6.14	0.002749507	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	3.19	0.001258383	2.5
4.0	5.21	0.002055227	2.5
4.2	-3.69	0.001455621	2.5
Max. Deviation (ppm)	5.21	0.002055227	2.5

Test Mode:	LTE Band 7_CH21100_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.14	0.001238659	2.5
5	-5.21	0.002055227	2.5
10	-6.28	0.002477318	2.5
15	-3.08	0.00121499	2.5
20	2.27	0.000895464	2.5
25	1.66	0.000654832	2.5
30	5.14	0.002027613	2.5
35	2.68	0.001057199	2.5
Max. Deviation (ppm)	6.28	0.002477318	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.12	0.000836292	2.5
4.0	1.87	0.000737673	2.5
4.2	-2.94	0.001159763	2.5
Max. Deviation (ppm)	2.94	0.001159763	2.5

Test Mode:	LTE Band 7_CH21100_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.75	0.00147929	2.5
5	1.28	0.000504931	2.5
10	-6.29	0.002481262	2.5
15	1.82	0.000717949	2.5
20	4.37	0.001723866	2.5
25	5.24	0.002067061	2.5
30	-1.18	0.000465483	2.5
35	5.02	0.001980276	2.5
Max. Deviation (ppm)	6.29	0.002481262	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.33	0.000524655	2.5
4.0	5.14	0.002027613	2.5
4.2	3.62	0.001428008	2.5
Max. Deviation (ppm)	5.14	0.002027613	2.5