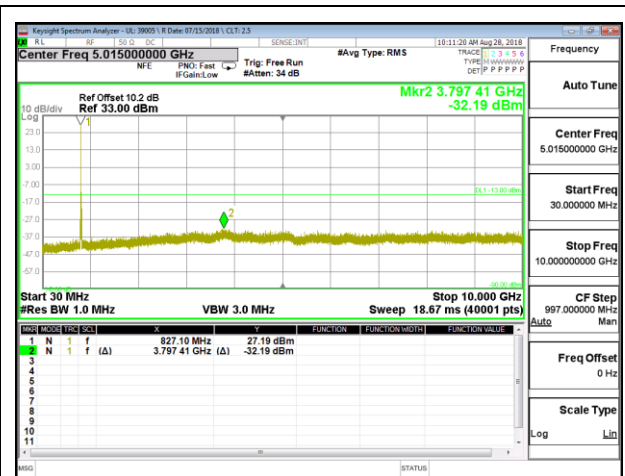
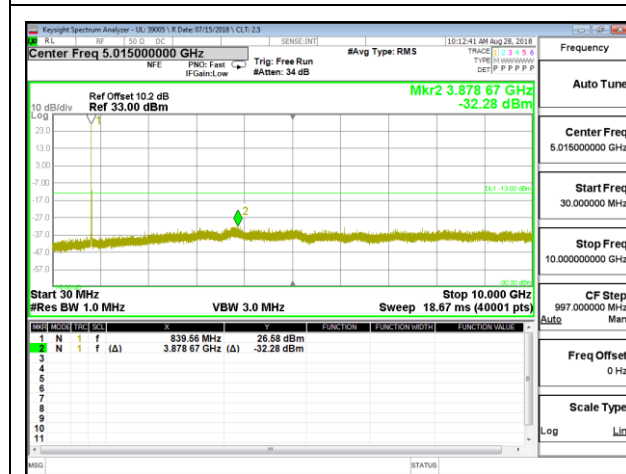


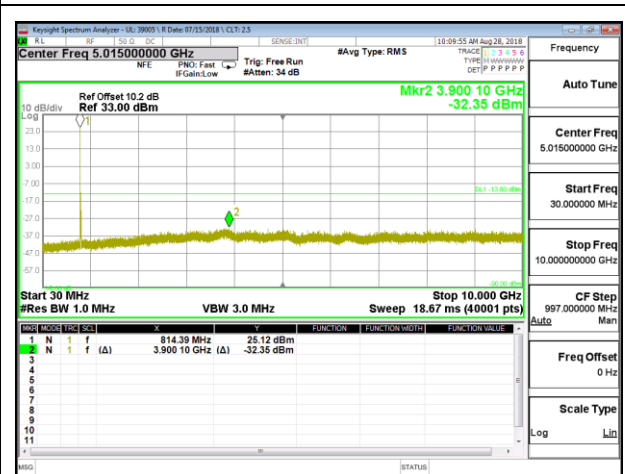
LTE B26 10MHz QPSK Low Channel RB1-0



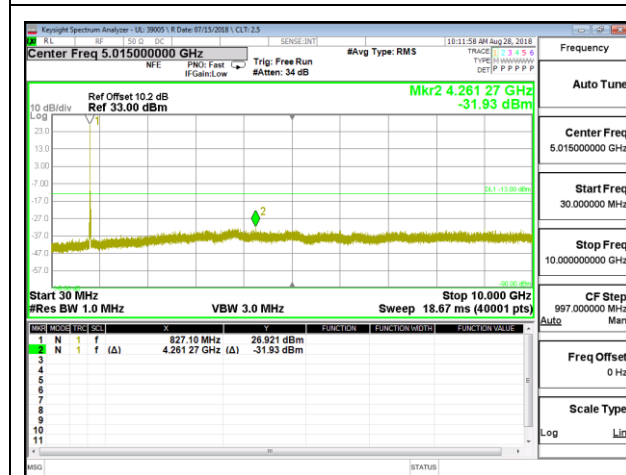
LTE B26 10MHz QPSK Mid Channel RB1-0



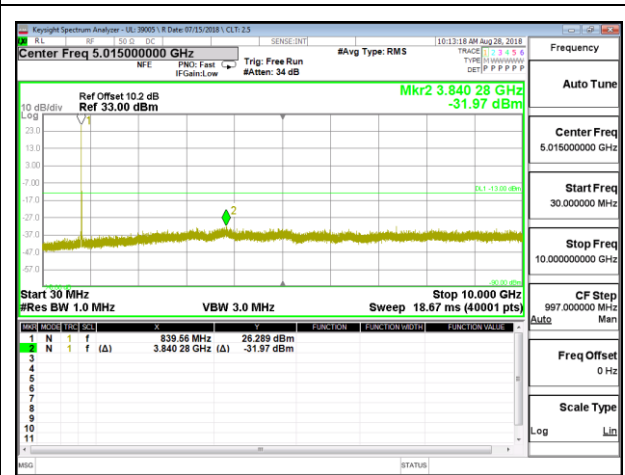
LTE B26 10MHz QPSK High Channel RB1-0



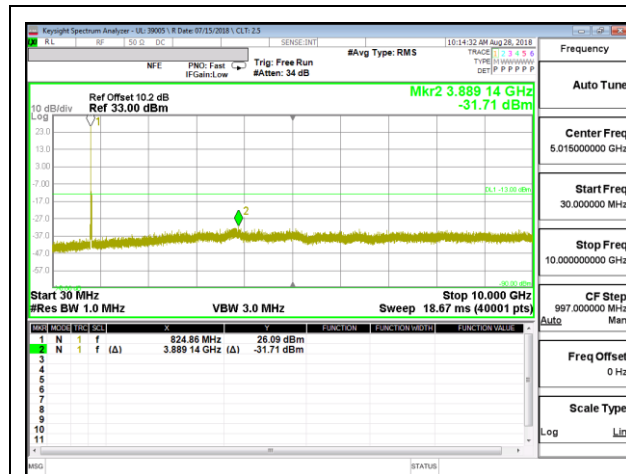
LTE B26 10MHz 16QAM Low Channel RB1-0



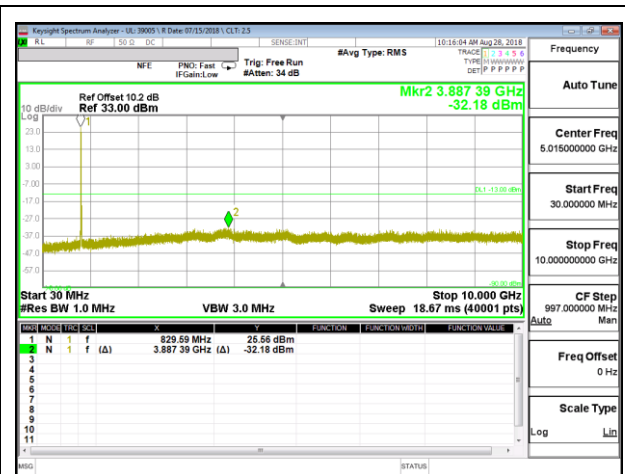
LTE B26 10MHz 16QAM Mid Channel RB1-0



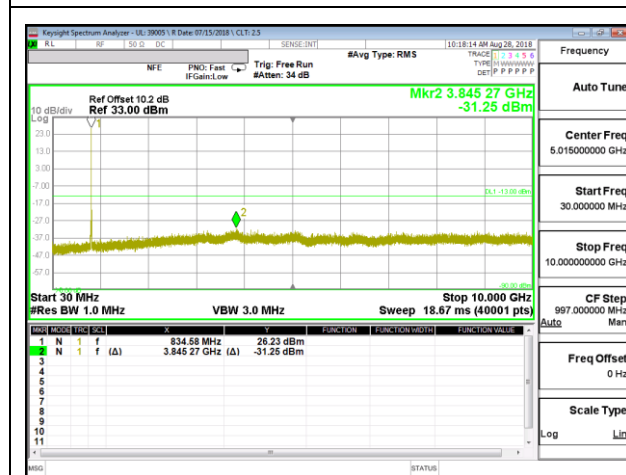
LTE B26 10MHz 16QAM High Channel RB1-0



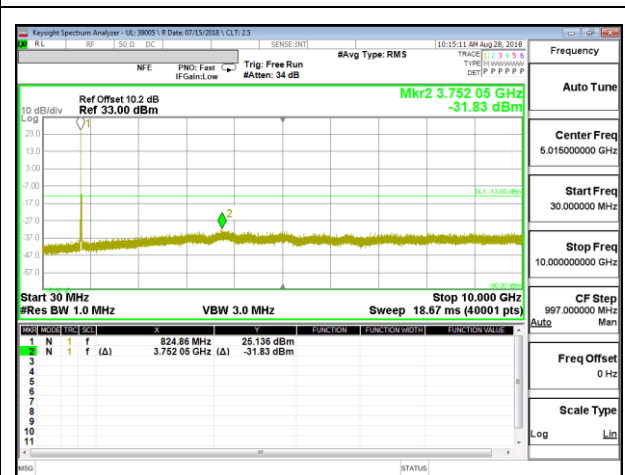
LTE B26 15MHz QPSK Low Channel RB1-0



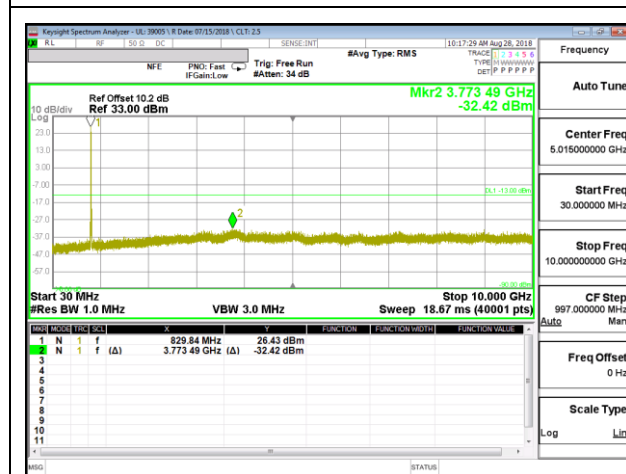
LTE B26 15MHz QPSK Mid Channel RB1-0



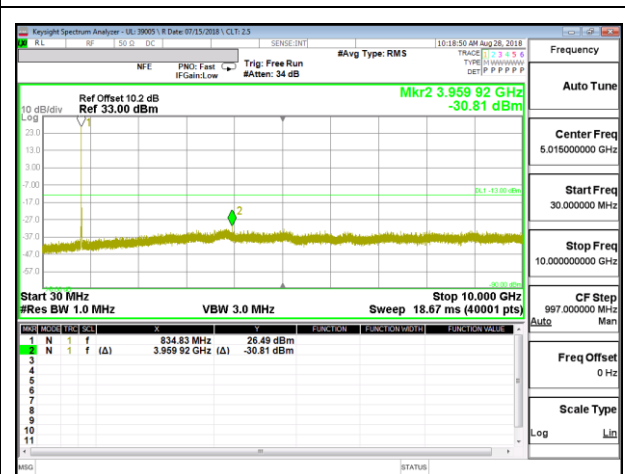
LTE B26 15MHz QPSK High Channel RB1-0



LTE B26 15MHz 16QAM Low Channel RB1-0

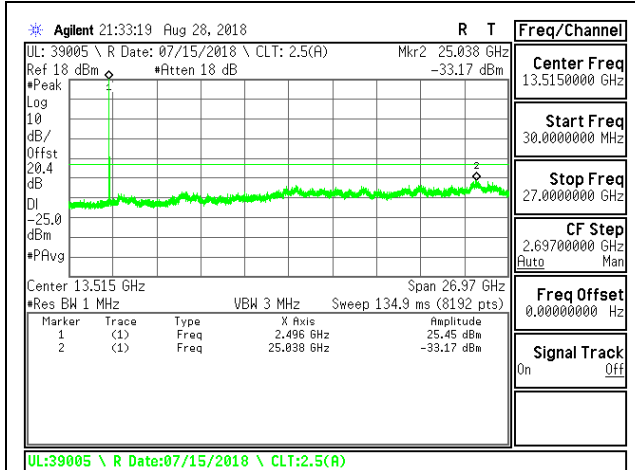


LTE B26 15MHz 16QAM Mid Channel RB1-0

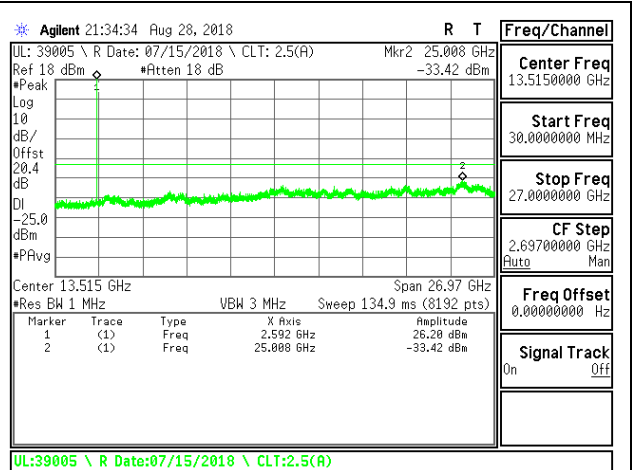


LTE B26 15MHz 16QAM High Channel RB1-0

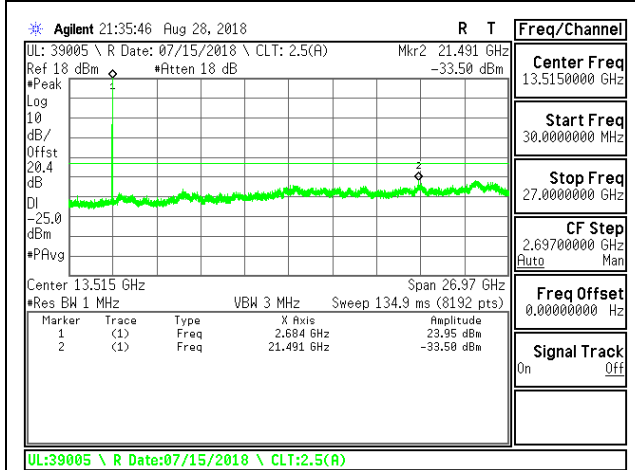
8.3.9. LTE BAND 41



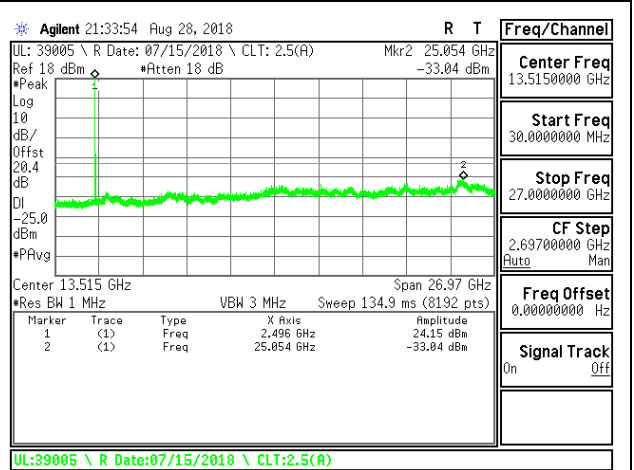
LTE B41 5MHz QPSK Low Channel RB1-0



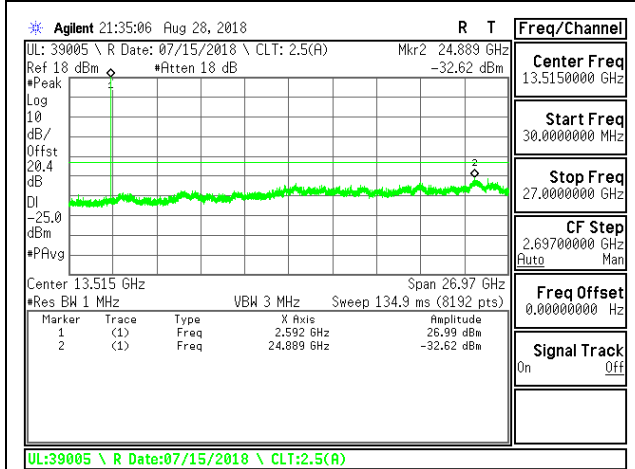
LTE B41 5MHz QPSK Mid Channel RB1-0



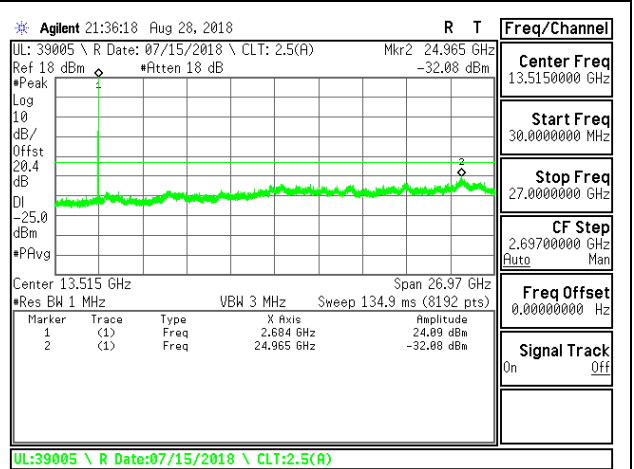
LTE B41 5MHz QPSK High Channel RB1-0



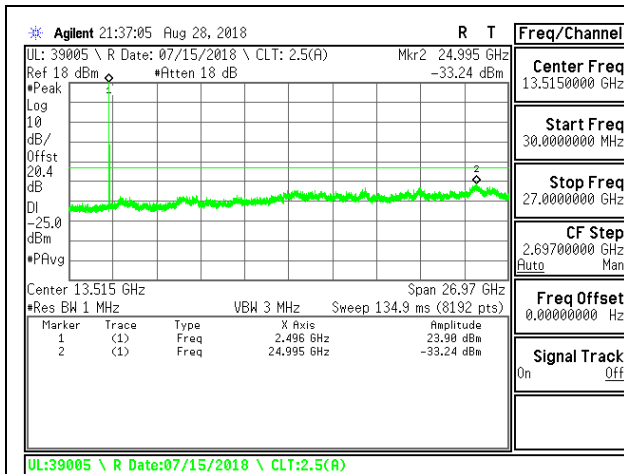
LTE B41 5MHz 16QAM Low Channel RB1-0



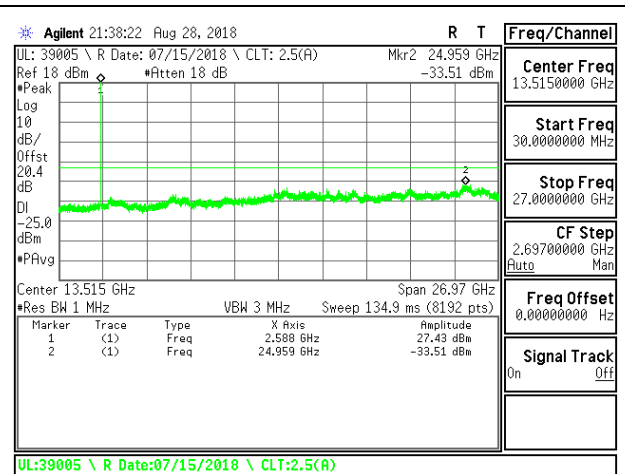
LTE B41 5MHz 16QAM Mid Channel RB1-0



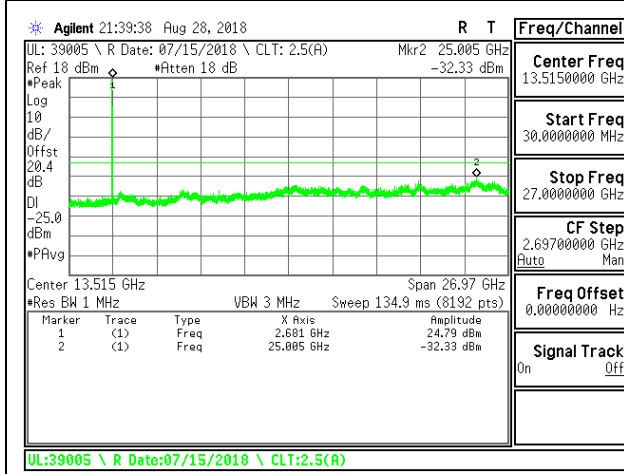
LTE B41 5MHz 16QAM High Channel RB1-0



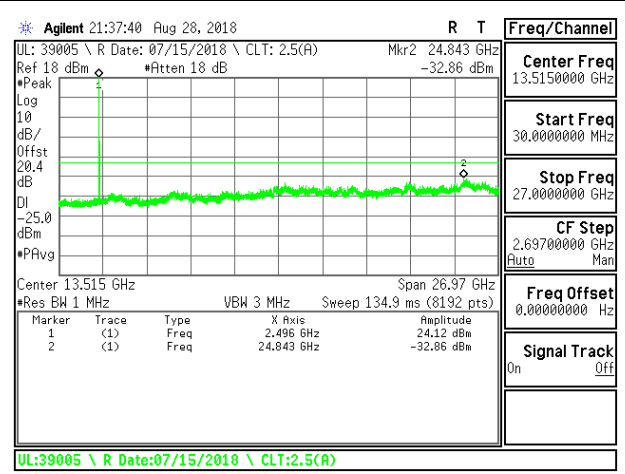
LTE B41 10MHz QPSK Low Channel RB1-0



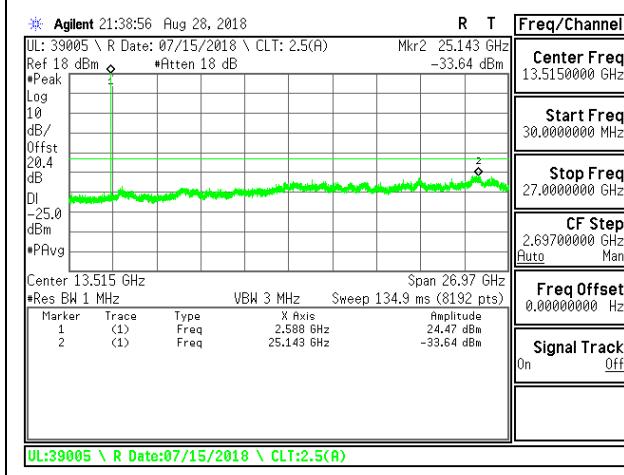
LTE B41 10MHz QPSK Mid Channel RB1-0



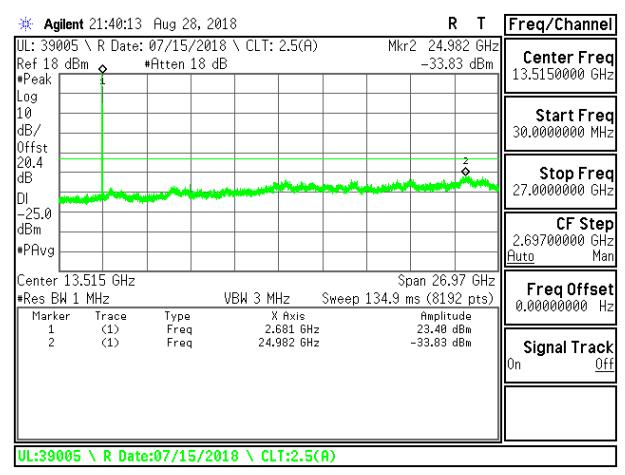
LTE B41 10MHz QPSK High Channel RB1-0



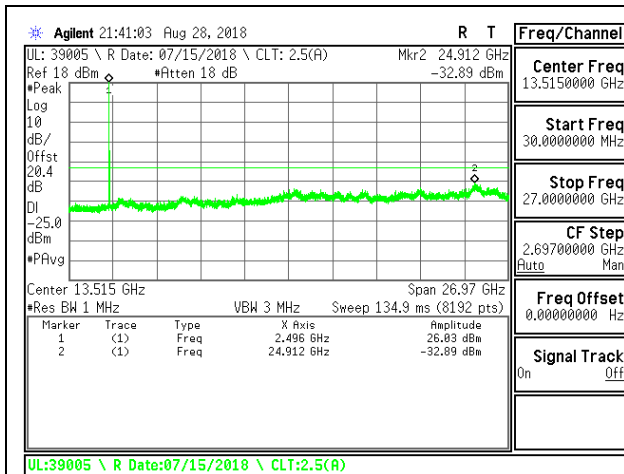
LTE B41 10MHz 16QAM Low Channel RB1-0



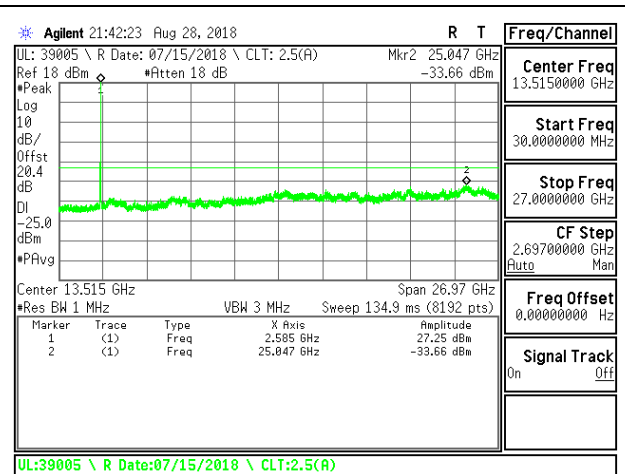
LTE B41 10MHz 16QAM Mid Channel RB1-0



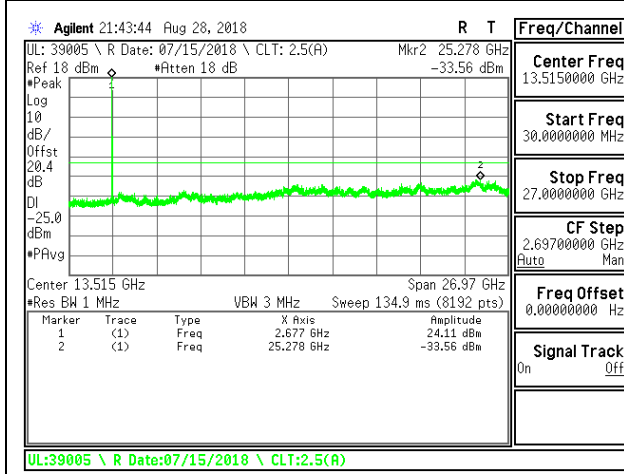
LTE B41 10MHz 16QAM High Channel RB1-0



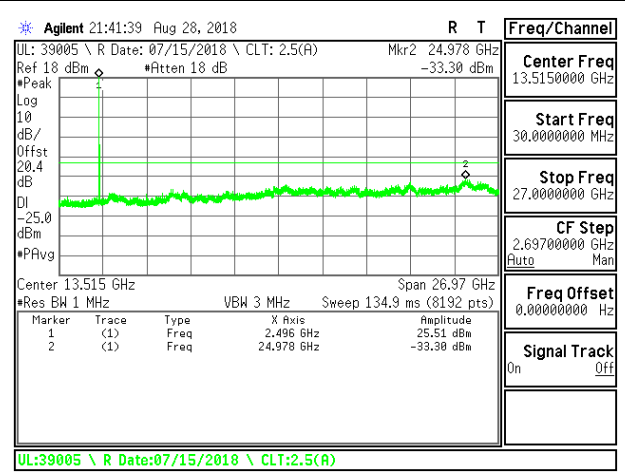
LTE B41 15MHz QPSK Low Channel RB1-0



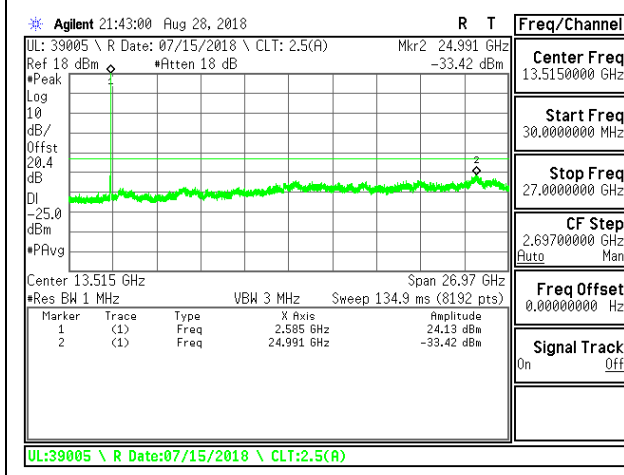
LTE B41 15MHz QPSK Mid Channel RB1-0



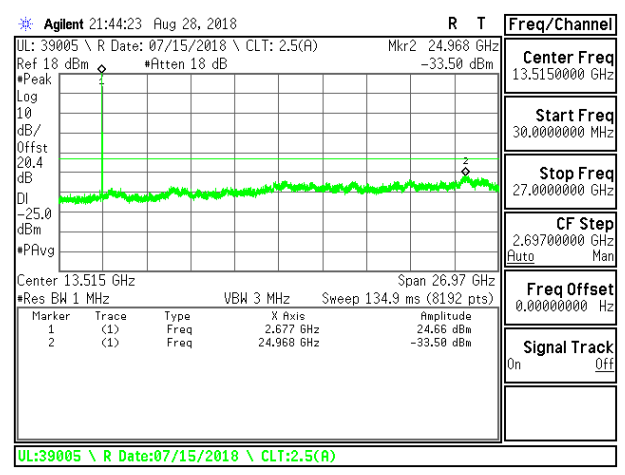
LTE B41 15MHz QPSK High Channel RB1-0



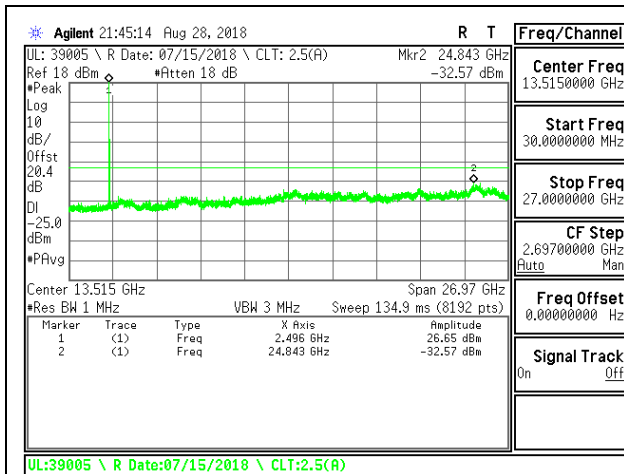
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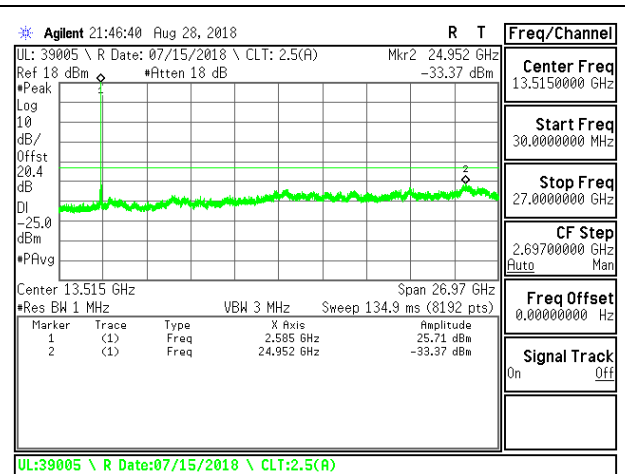
LTE B41 15MHz 16QAM Mid Channel RB1-0



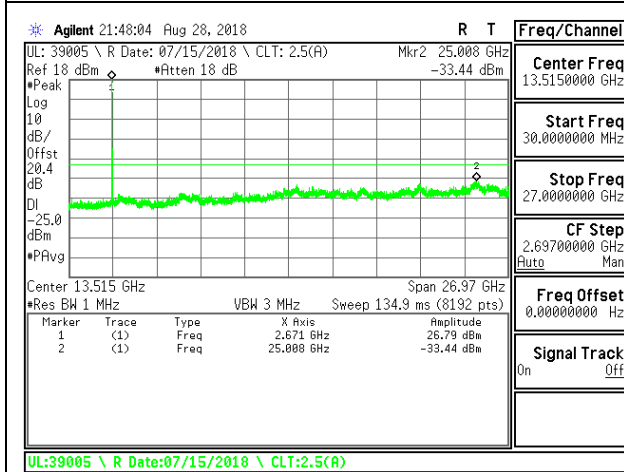
LTE B41 15MHz 16QAM High Channel RB1-0



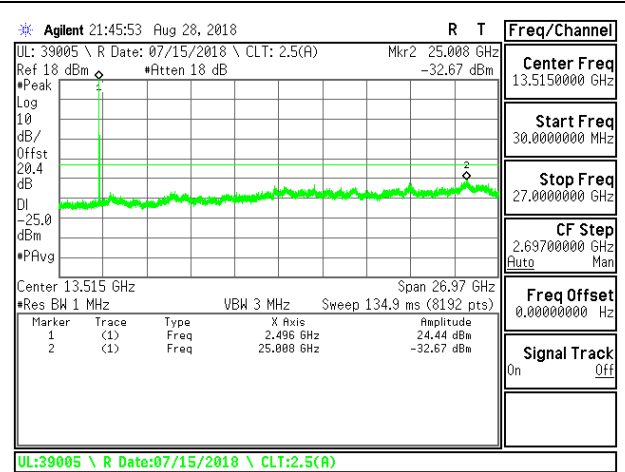
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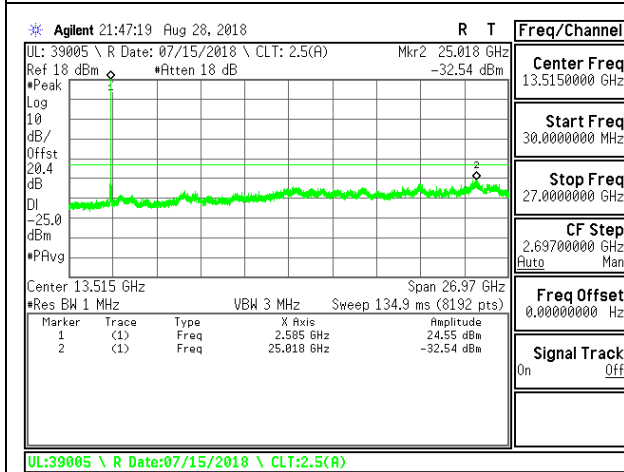
LTE B41 20MHz QPSK Mid Channel RB1-0



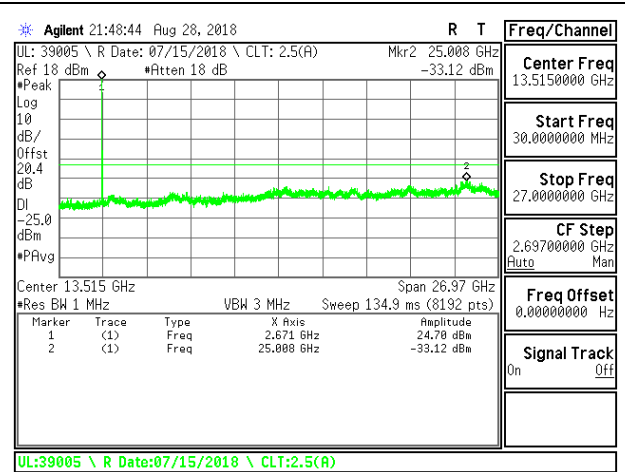
LTE B41 20MHz QPSK High Channel RB1-0



LTE B41 20MHz 16QAM Low Channel RB1-0



LTE B41 20MHz 16QAM Mid Channel RB1-0



LTE B41 20MHz 16QAM High Channel RB1-0

8.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54 and §90.213

LIMITS

FCC: §22.355, §90.213

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC: §24.235 & §27.54

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

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30°C to $+50^{\circ}\text{C}$
- Voltage = (85% - 115%)
Low voltage, 3.3VDC, Normal, 3.85VDC and High voltage, 4.43VDC.
End Voltage, 3.2VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

MODES TESTED

- GSM 1900
- WCDM Band 5
- WCDM Band 2
- WCDM Band 4
- LTE Band 4
- LTE Band 5
- LTE Band 17
- LTE Band 26
- LTE Band 41

RESULTS

8.4.1. GSM 1900

ID:	39005	Date:	8/28/18
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Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.0315	1909.9670		
Extreme (50C)		1850.0315	1909.9670	14.9	0.01
Extreme (40C)		1850.0315	1909.9670	14.0	0.01
Extreme (30C)		1850.0315	1909.9670	14.3	0.01
Extreme (10C)		1850.0315	1909.9670	15.3	0.01
Extreme (0C)		1850.0315	1909.9670	16.6	0.01
Extreme (-10C)		1850.0315	1909.9670	16.8	0.01
Extreme (-20C)		1850.0315	1909.9670	17.3	0.01
Extreme (-30C)		1850.0315	1909.9670	17.3	0.01
20C	15%	1850.0315	1909.9670	17.0	0.01
	-15%	1850.0315	1909.9670	16.7	0.01
	End Point	1850.0315	1909.9670	18.0	0.01

8.4.2. WCDMA BAND5

ID:	39005	Date:	8/28/18
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Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.1134	848.8900		
Extreme (50C)		824.1134	848.8900	-3.0	0.00
Extreme (40C)		824.1134	848.8900	-3.0	0.00
Extreme (30C)		824.1134	848.8900	-3.1	0.00
Extreme (10C)		824.1134	848.8900	-3.4	0.00
Extreme (0C)		824.1134	848.8900	-3.3	0.00
Extreme (-10C)		824.1134	848.8900	-3.1	0.00
Extreme (-20C)		824.1134	848.8900	-3.1	0.00
Extreme (-30C)		824.1134	848.8900	-3.1	0.00
20C	15%	824.1134	848.8900	-4.3	-0.01
	-15%	824.1134	848.8900	-3.2	0.00
	End Point	824.1134	848.8900	-3.2	0.00

8.4.3. WCDMA BAND2

ID:	39005	Date:	8/29/18
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Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.1042	1909.9033		
Extreme (50C)		1850.1042	1909.9033	-3.1	0.00
Extreme (40C)		1850.1042	1909.9033	-3.2	0.00
Extreme (30C)		1850.1042	1909.9033	-4.0	0.00
Extreme (10C)		1850.1042	1909.9033	-3.4	0.00
Extreme (0C)		1850.1042	1909.9033	-3.6	0.00
Extreme (-10C)		1850.1042	1909.9033	-3.6	0.00
Extreme (-20C)		1850.1042	1909.9033	-4.2	0.00
Extreme (-30C)		1850.1042	1909.9033	-3.7	0.00
20C	15%	1850.1042	1909.9033	-4.0	0.00
	-15%	1850.1042	1909.9033	-3.8	0.00
	End Point	1850.1042	1909.9033	-3.5	0.00

8.4.4. WCDMA BAND4

ID:	39005	Date:	8/29/18
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Limit		1710	1755	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1710.0867	1754.9083		
Extreme (50C)		1710.0867	1754.9083	-2.6	0.00
Extreme (40C)		1710.0867	1754.9083	-3.4	0.00
Extreme (30C)		1710.0867	1754.9083	-4.4	0.00
Extreme (10C)		1710.0867	1754.9083	-3.2	0.00
Extreme (0C)		1710.0867	1754.9083	-2.0	0.00
Extreme (-10C)		1710.0867	1754.9083	-4.0	0.00
Extreme (-20C)		1710.0867	1754.9083	-4.6	0.00
Extreme (-30C)		1710.0867	1754.9083	-4.4	0.00
20C	15%	1710.0867	1754.9083	-4.2	0.00
	-15%	1710.0867	1754.9083	-5.3	0.00
	End Point	1710.0867	1754.9083	-4.1	0.00

8.4.5. LTE BAND 4

ID:	39005	Date:	8/27/18
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Limit		1710	1755	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1710.8530	1754.1590		
Extreme (50C)		1710.8530	1754.1590	6.0	0.003
Extreme (40C)		1710.8530	1754.1590	5.9	0.003
Extreme (30C)		1710.8530	1754.1590	6.0	0.003
Extreme (10C)		1710.8530	1754.1590	6.3	0.004
Extreme (0C)		1710.8530	1754.1590	6.2	0.004
Extreme (-10C)		1710.8530	1754.1590	6.0	0.003
Extreme (-20C)		1710.8530	1754.1590	6.4	0.004
Extreme (-30C)		1710.8530	1754.1590	7.2	0.004
20C	15%	1710.8530	1754.1590	7.6	0.004
	-15%	1710.8530	1754.1590	6.9	0.004
	End Point	1710.8530	1754.1590	6.5	0.004

8.4.6. LTE BAND 5

ID:	39005	Date:	8/27/18
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Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.4010	848.5810		
Extreme (50C)		824.4010	848.5810	4.0	0.005
Extreme (40C)		824.4010	848.5810	3.0	0.004
Extreme (30C)		824.4010	848.5810	5.0	0.006
Extreme (10C)		824.4010	848.5810	4.4	0.005
Extreme (0C)		824.4010	848.5810	3.5	0.004
Extreme (-10C)		824.4010	848.5810	3.6	0.004
Extreme (-20C)		824.4010	848.5810	5.0	0.006
Extreme (-30C)		824.4010	848.5810	4.9	0.006
20C	15%	824.4010	848.5810	4.2	0.005
	-15%	824.4010	848.5810	3.7	0.004
	End Point	824.4010	848.5810	3.6	0.004

8.4.7. LTE BAND 17

ID:	39005	Date:	8/27/18
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Limit		704	716	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	704.4010	715.5810		
Extreme (50C)		704.4010	715.5810	3.0	0.004
Extreme (40C)		704.4010	715.5810	3.0	0.004
Extreme (30C)		704.4010	715.5810	2.8	0.004
Extreme (10C)		704.4010	715.5810	3.0	0.004
Extreme (0C)		704.4010	715.5810	3.2	0.005
Extreme (-10C)		704.4010	715.5810	4.0	0.006
Extreme (-20C)		704.4010	715.5810	4.2	0.006
Extreme (-30C)		704.4010	715.5810	3.5	0.005
20C	15%	704.4010	715.5810	4.2	0.006
	-15%	704.4010	715.5810	4.8	0.007
	End Point	704.4010	715.5810	4.0	0.006

8.4.8. LTE BAND 26 (FCC PART 90S)

ID:	39005	Date:	8/27/18
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Limit		814	824	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	814.1500	823.8550		
Extreme (50C)		814.1500	823.8550	2.9	0.004
Extreme (40C)		814.1500	823.8550	3.0	0.004
Extreme (30C)		814.1500	823.8550	4.0	0.005
Extreme (10C)		814.1500	823.8550	3.1	0.004
Extreme (0C)		814.1500	823.8550	3.3	0.004
Extreme (-10C)		814.1500	823.8550	3.0	0.004
Extreme (-20C)		814.1500	823.8550	4.0	0.005
Extreme (-30C)		814.1500	823.8550	4.2	0.005
20C	15%	814.1500	823.8550	4.0	0.005
	-15%	814.1500	823.8550	5.0	0.006
	End Point	814.1500	823.8550	3.6	0.004

8.4.9. LTE BAND 26 (FCC PART 22)

ID:	39005	Date:	8/28/18
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Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.6770	848.3170		
Extreme (50C)		824.6770	848.3170	2.8	0.003
Extreme (40C)		824.6770	848.3170	2.9	0.004
Extreme (30C)		824.6770	848.3170	4.2	0.005
Extreme (10C)		824.6770	848.3170	3.7	0.004
Extreme (0C)		824.6770	848.3170	3.0	0.004
Extreme (-10C)		824.6770	848.3170	3.3	0.004
Extreme (-20C)		824.6770	848.3170	4.2	0.005
Extreme (-30C)		824.6770	848.3170	3.4	0.004
20C	15%	824.6770	848.3170	3.3	0.004
	-15%	824.6770	848.3170	3.1	0.004
	End Point	824.6770	848.3170	3.5	0.004

8.4.10. LTE BAND 41

ID:	39005	Date:	8/28/18
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Limit		2496	2690	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	2496.6880	2689.3020		
Extreme (50C)		2496.6880	2689.3020	-5.7	-0.002
Extreme (40C)		2496.6880	2689.3020	-7.4	-0.003
Extreme (30C)		2496.6880	2689.3020	-8.0	-0.003
Extreme (10C)		2496.6880	2689.3020	-8.3	-0.003
Extreme (0C)		2496.6880	2689.3020	-6.8	-0.003
Extreme (-10C)		2496.6880	2689.3020	-5.4	-0.002
Extreme (-20C)		2496.6880	2689.3020	-5.6	-0.002
Extreme (-30C)		2496.6880	2689.3020	-5.5	-0.002
20C	15%	2496.6880	2689.3020	-7.2	-0.003
	-15%	2496.6880	2689.3020	-8.0	-0.003
	End Point	2496.6880	2689.3020	-6.8	-0.003

8.5. PEAK TO AVERAGE RATIO

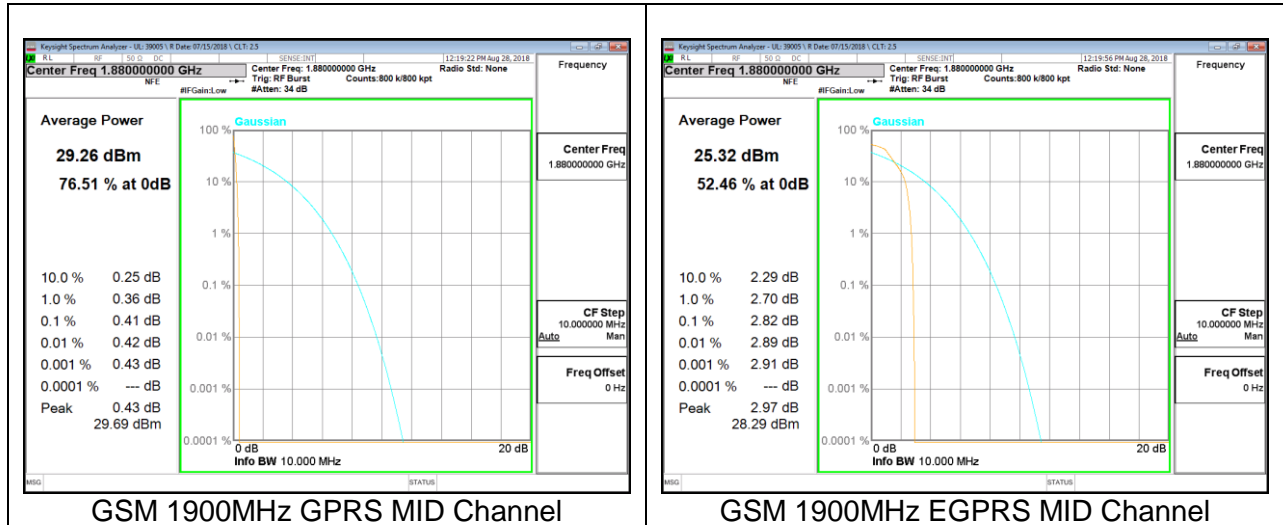
LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

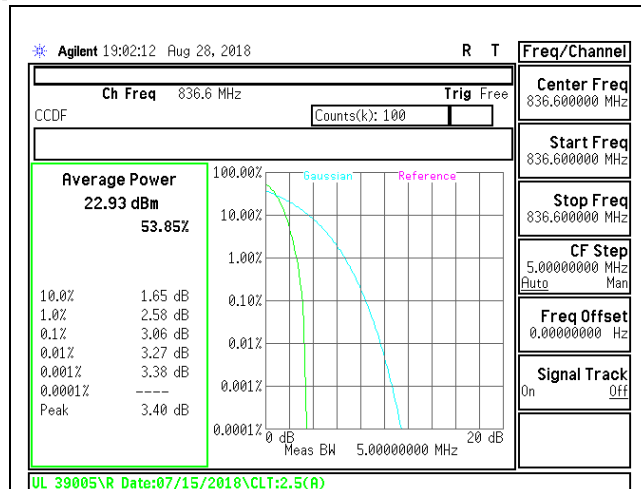
RESULT

Full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

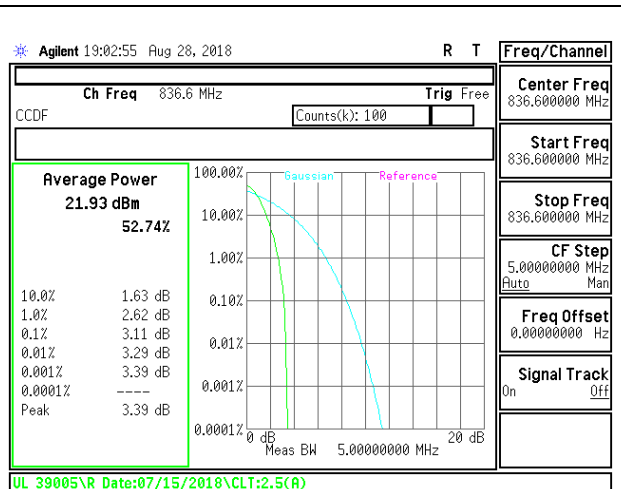
8.5.1. GSM



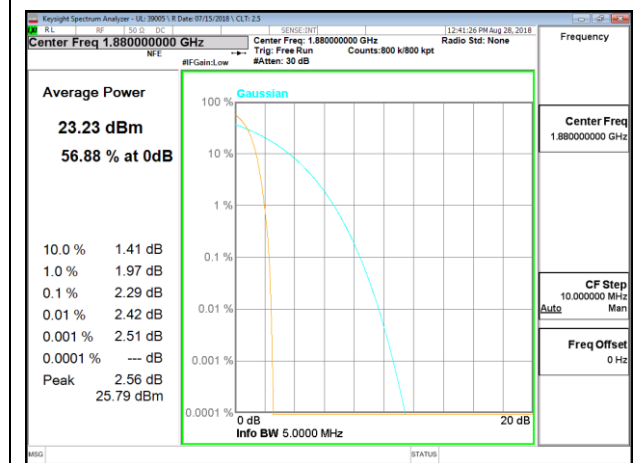
8.5.2. WCDMA



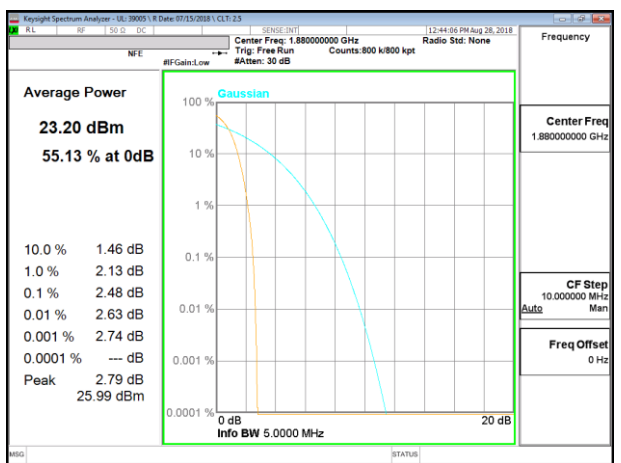
WCDMA BAND5 Rel99 MID Channel



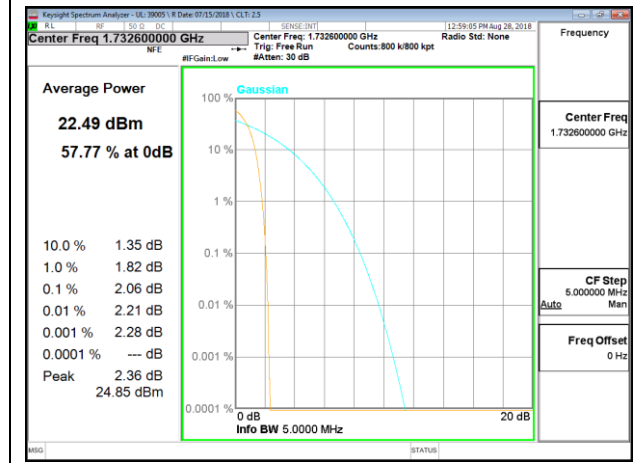
WCDMA BAND5 HSDPA MID Channel



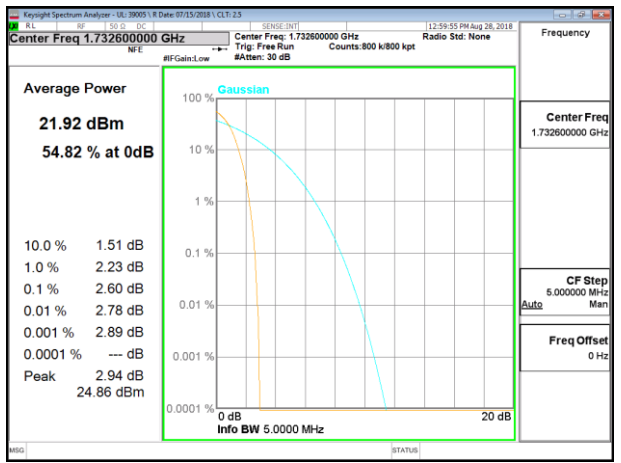
WCDMA BAND2 Rel99 MID Channel



WCDMA BAND2 HSDPA MID Channel

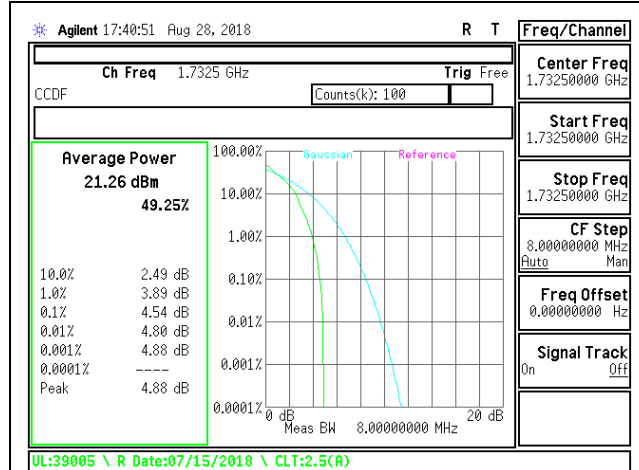


WCDMA BAND4 Rel99 MID Channel

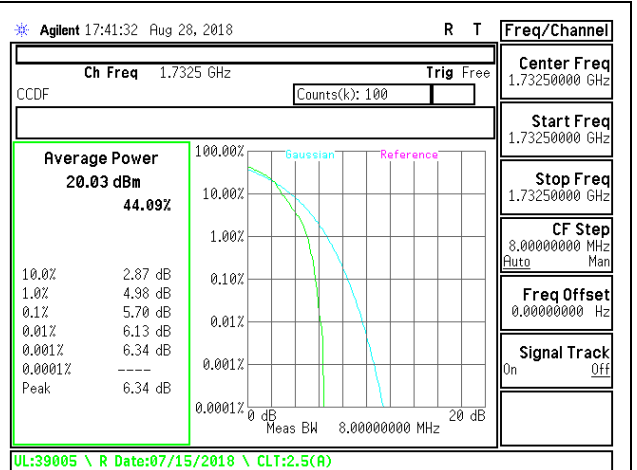


WCDMA BAND4 HSDPA MID Channel

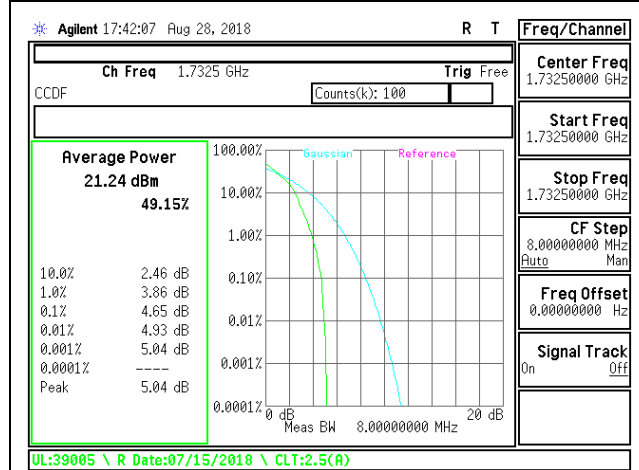
8.5.3. LTE BAND 4



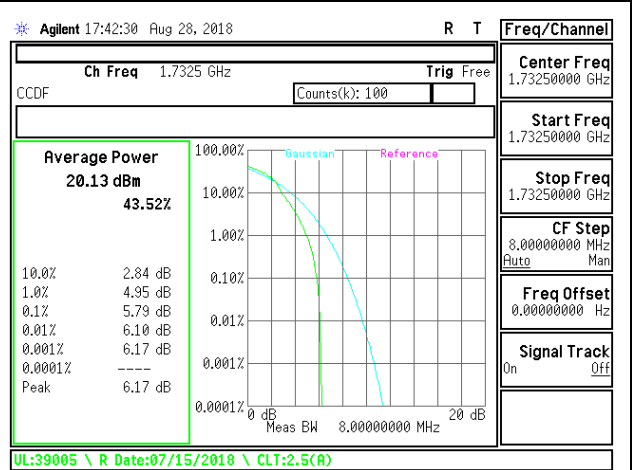
LTE B4 1.4MHz QPSK Mid Channel



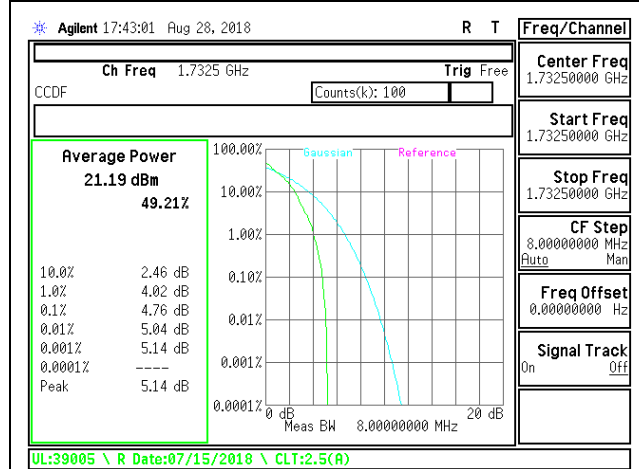
LTE B4 1.4MHz 16QAM Mid Channel



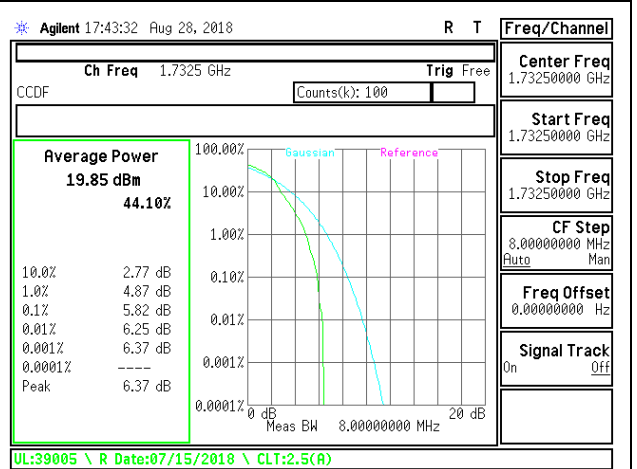
LTE B4 3MHz QPSK Mid Channel



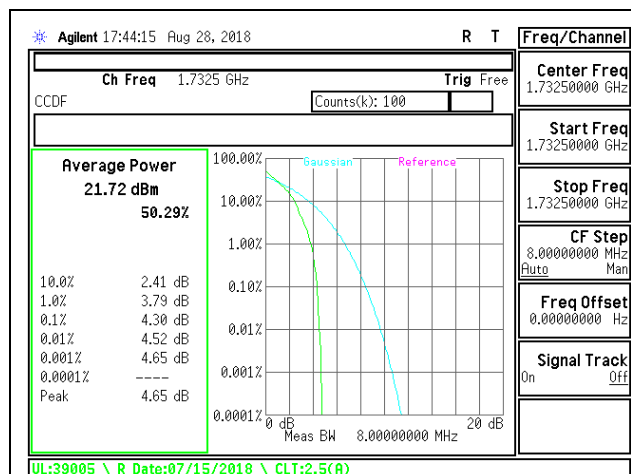
LTE B4 3MHz 16QAM Mid Channel



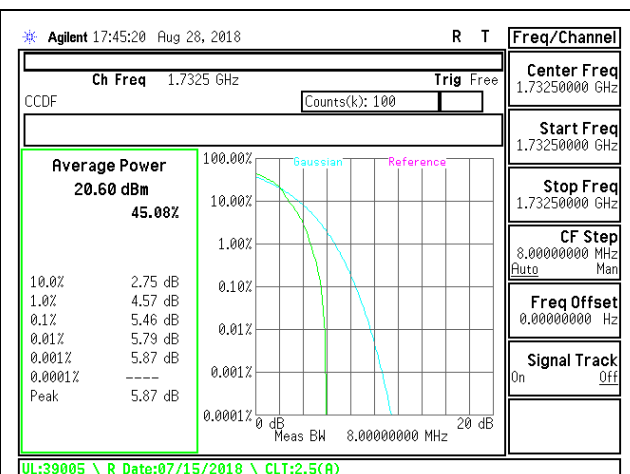
LTE B4 5MHz QPSK Mid Channel



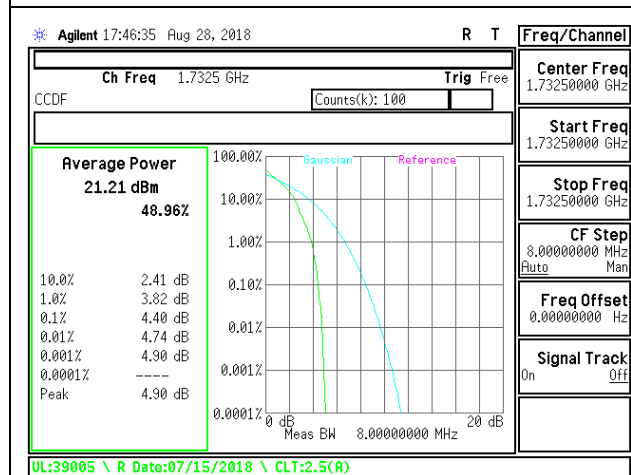
LTE B4 5MHz 16QAM Mid Channel



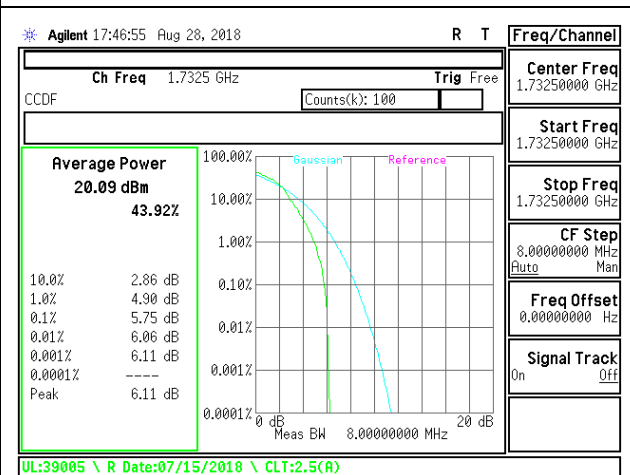
LTE B4 10MHz QPSK Mid Channel



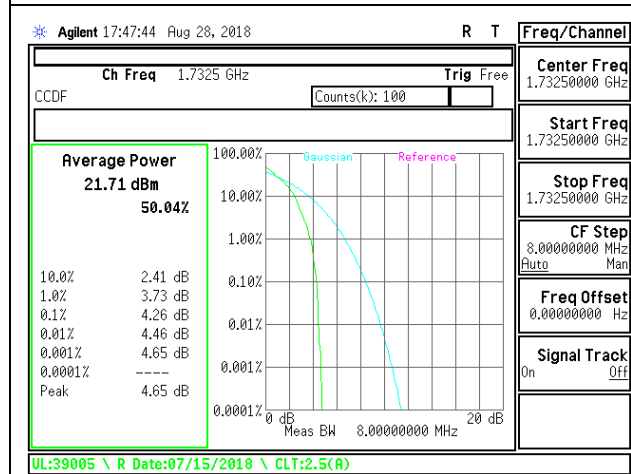
LTE B4 10MHz 16QAM Mid Channel



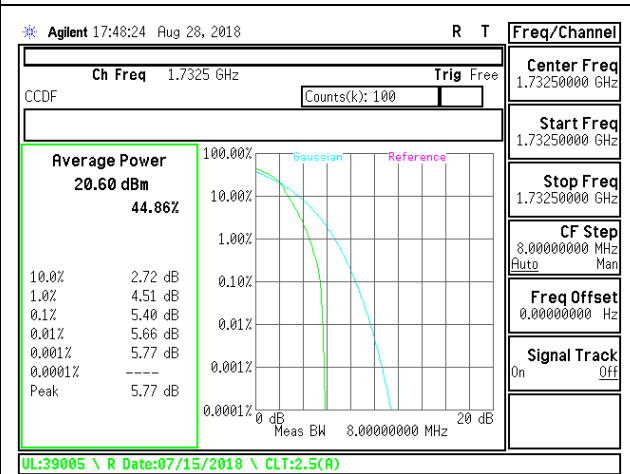
LTE B4 15MHz QPSK Mid Channel



LTE B4 15MHz 16QAM Mid Channel

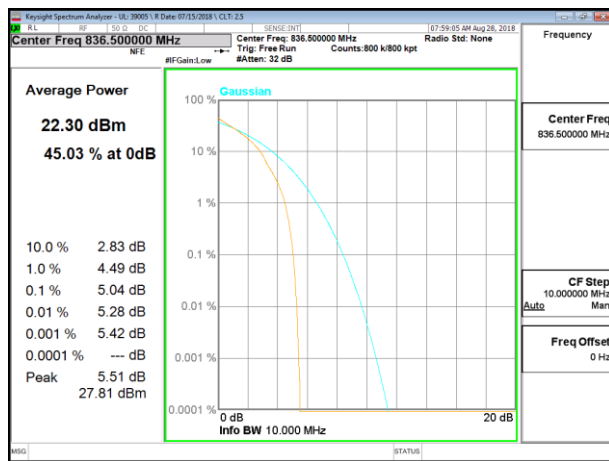


LTE B4 20MHz QPSK Mid Channel

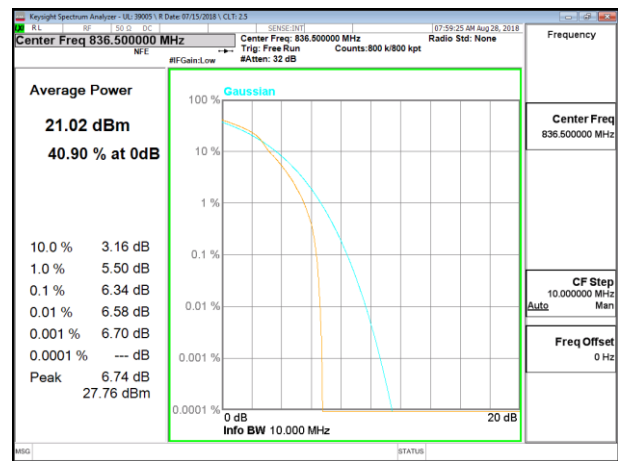


LTE B4 20MHz 16QAM Mid Channel

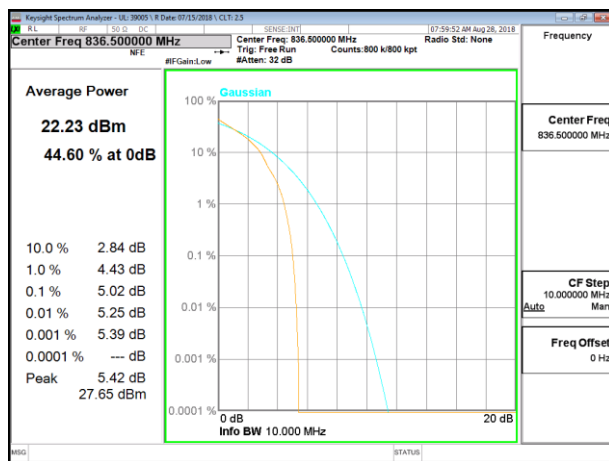
8.5.4. LTE BAND 5



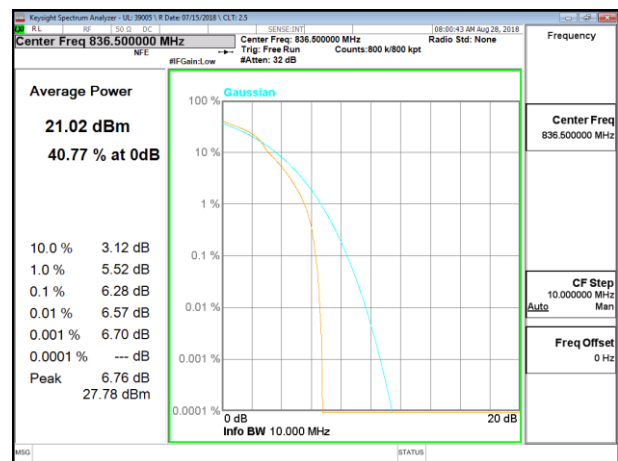
LTE B5 1.4MHz QPSK Mid Channel



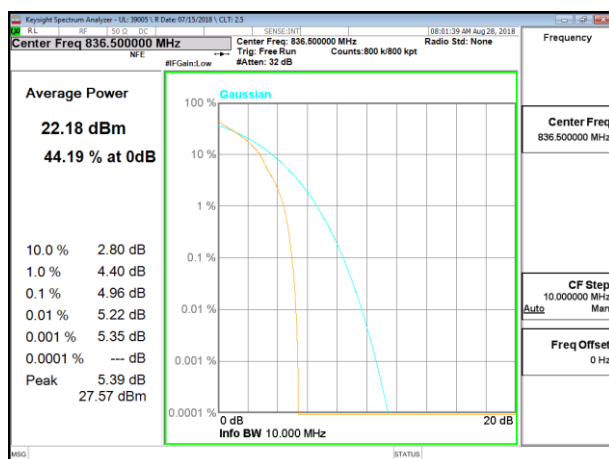
LTE B5 1.4MHz 16QAM Mid Channel



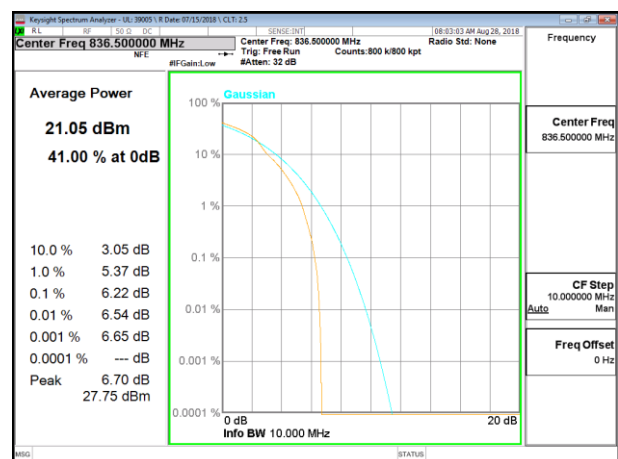
LTE B5 3MHz QPSK Mid Channel



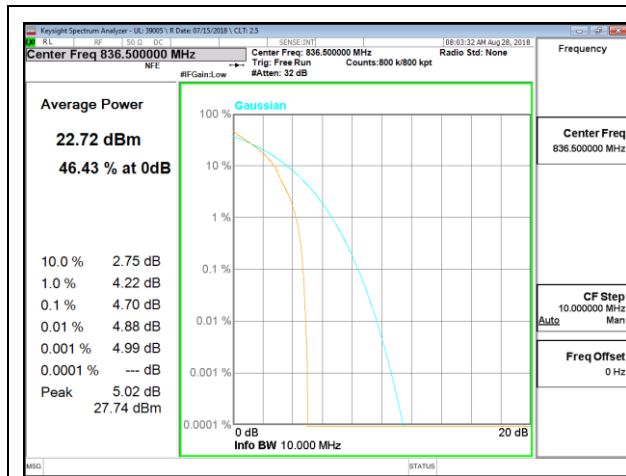
LTE B5 3MHz 16QAM Mid Channel



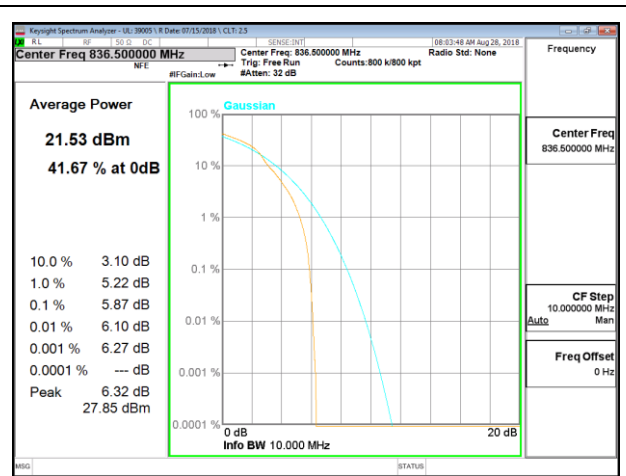
LTE B5 5MHz QPSK Mid Channel



LTE B5 5MHz 16QAM Mid Channel

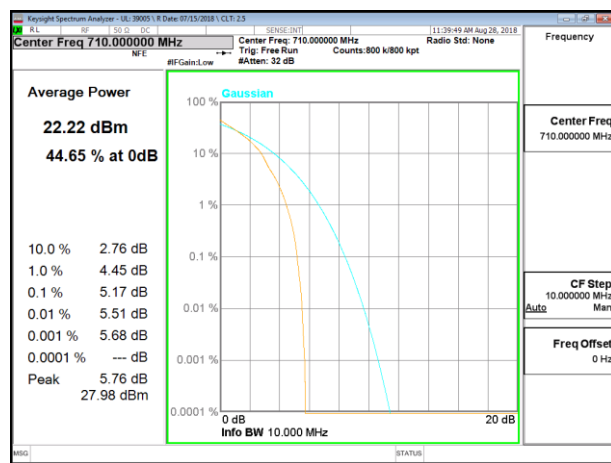


LTE B5 10MHz QPSK Mid Channel

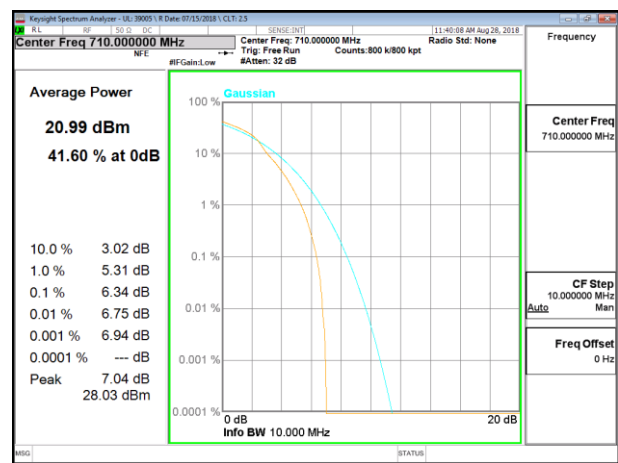


LTE B5 10MHz 16QAM Mid Channel

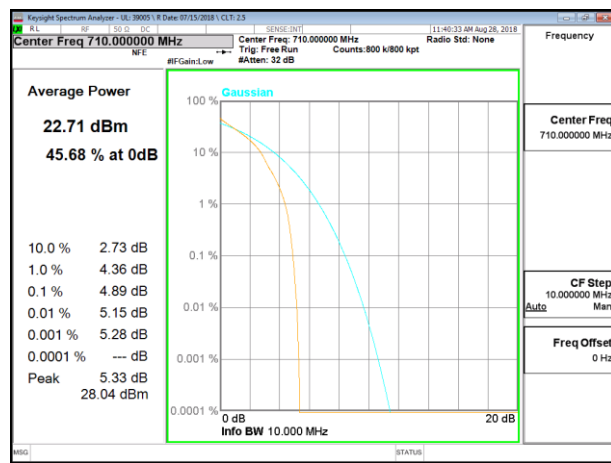
8.5.5. LTE BAND 17



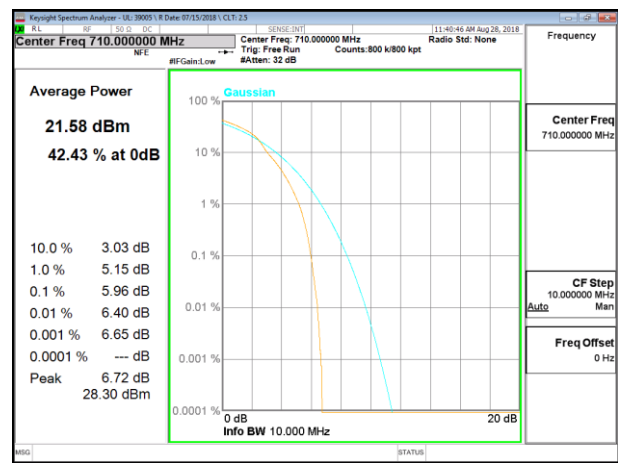
LTE B17 5MHz QPSK Mid Channel



LTE B17 5MHz 16QAM Mid Channel

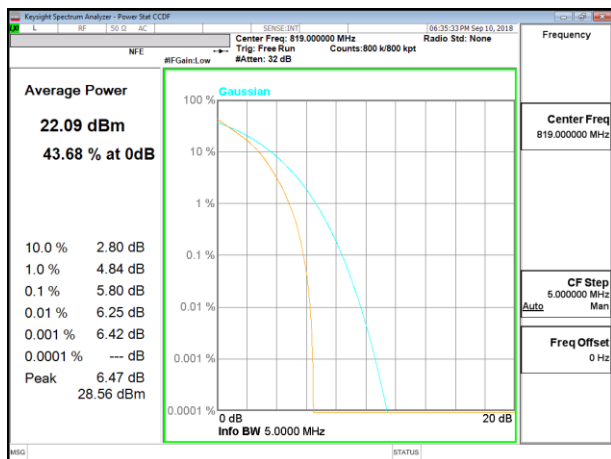


LTE B17 10MHz QPSK Mid Channel

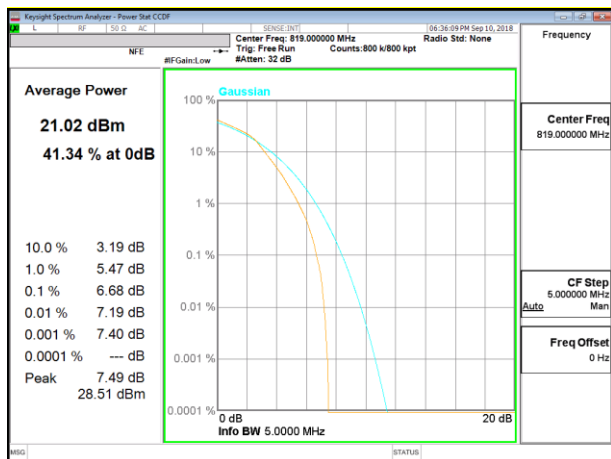


LTE B17 10MHz 16QAM Mid Channel

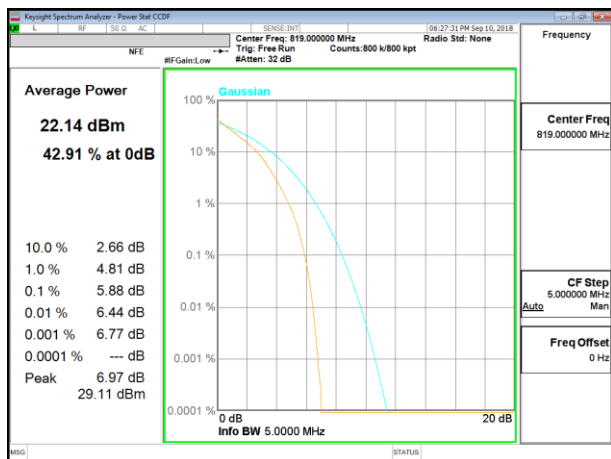
8.5.6. LTE BAND 26 (FCC PART 90S)



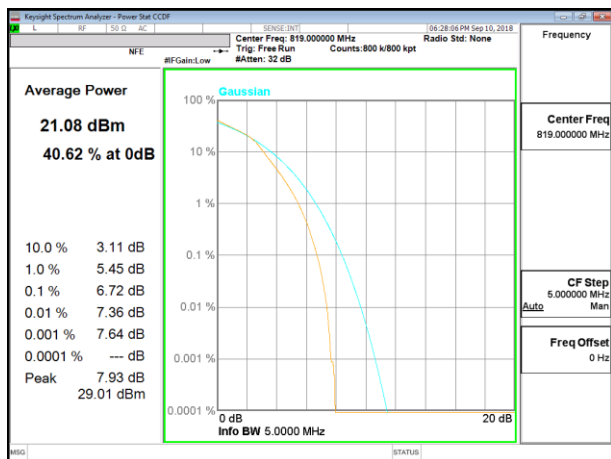
LTE B26 1.4MHz QPSK Mid Channel



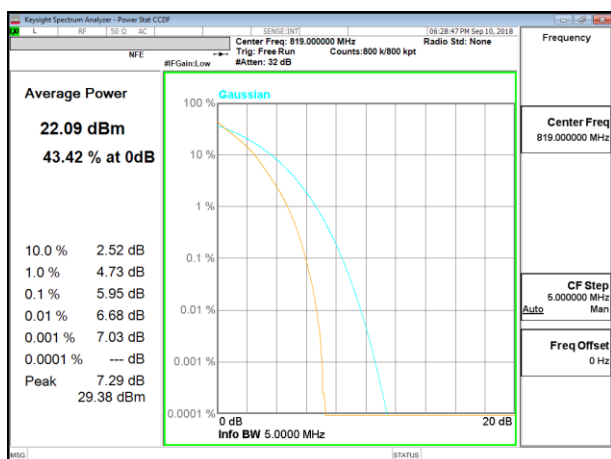
LTE B26 1.4MHz 16QAM Mid Channel



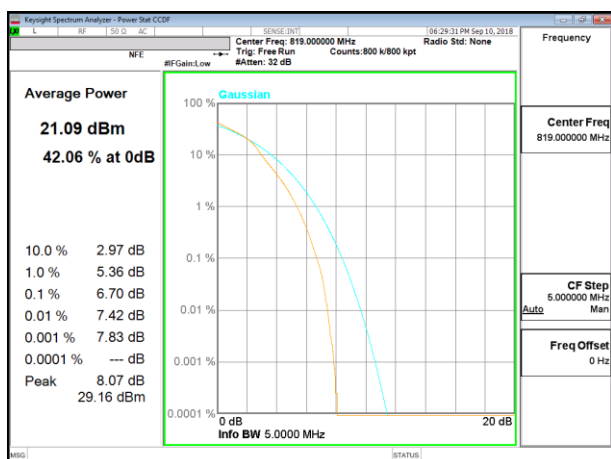
LTE B26 3MHz QPSK Mid Channel



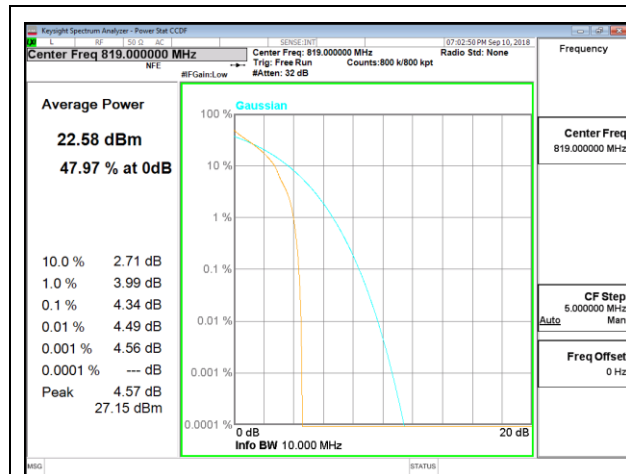
LTE B26 3MHz 16QAM Mid Channel



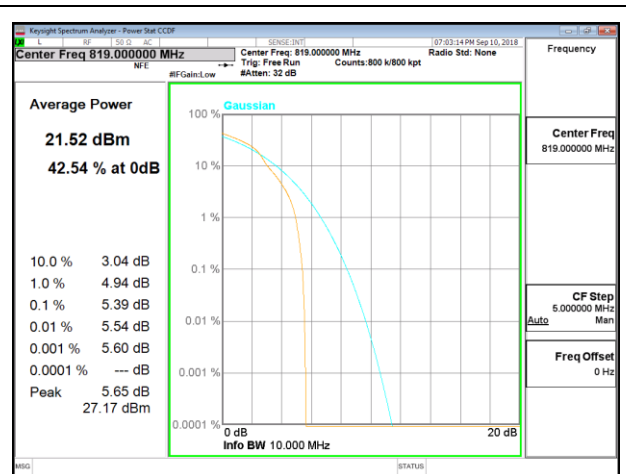
LTE B26 5MHz QPSK Mid Channel



LTE B26 5MHz 16QAM Mid Channel

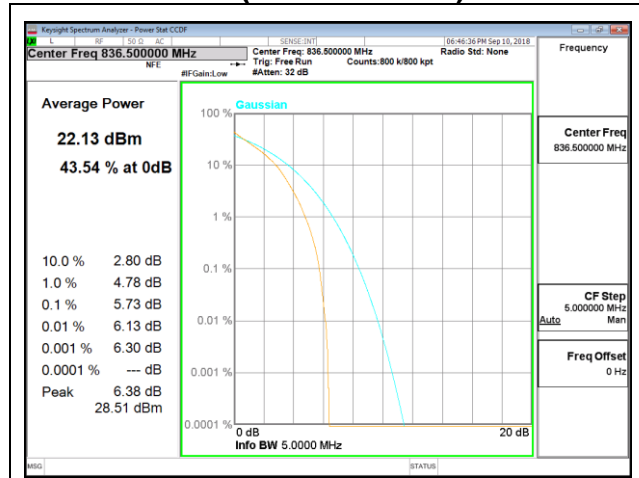


LTE B26 10MHz QPSK Mid Channel

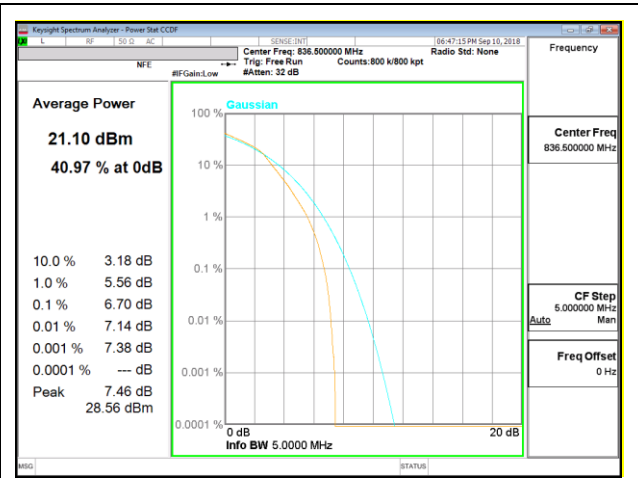


LTE B26 10MHz 16QAM Mid Channel

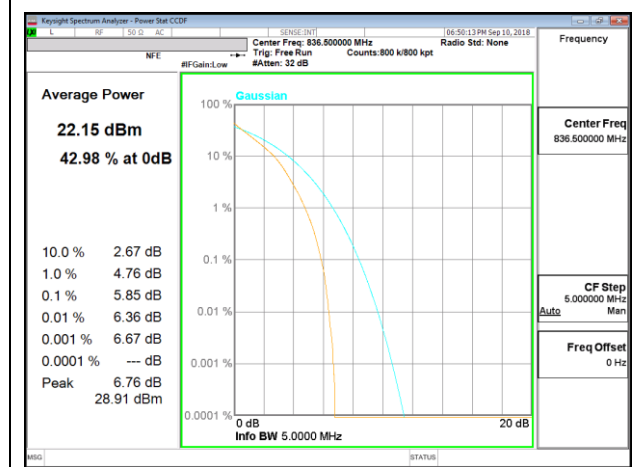
8.5.7. LTE BAND 26 (FCC PART 22)



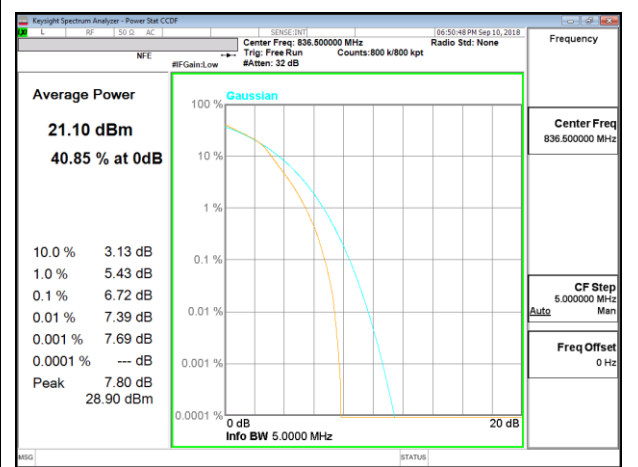
LTE B26 1.4MHz QPSK Mid Channel



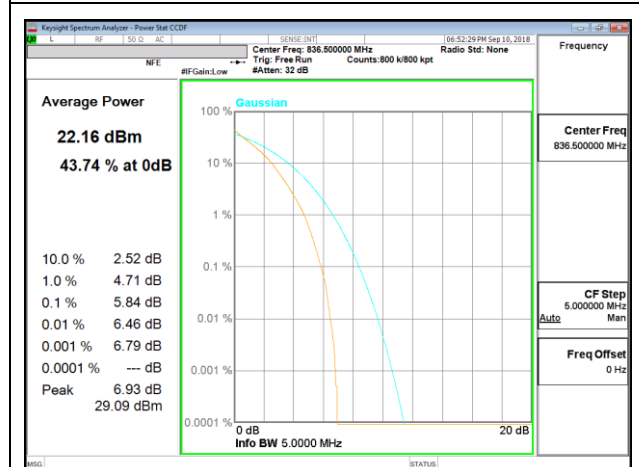
LTE B26 1.4MHz 16QAM Mid Channel



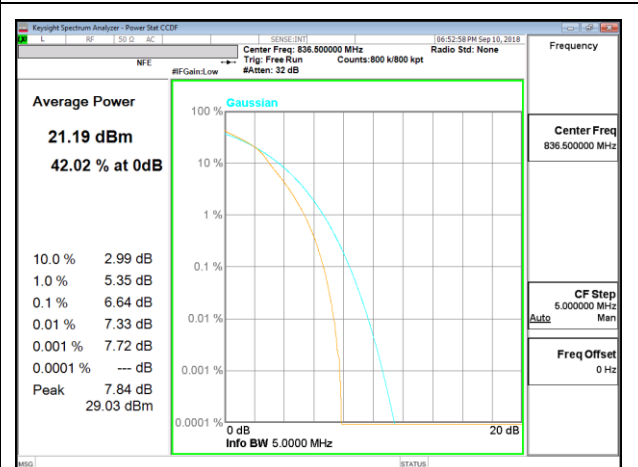
LTE B26 3MHz QPSK Mid Channel



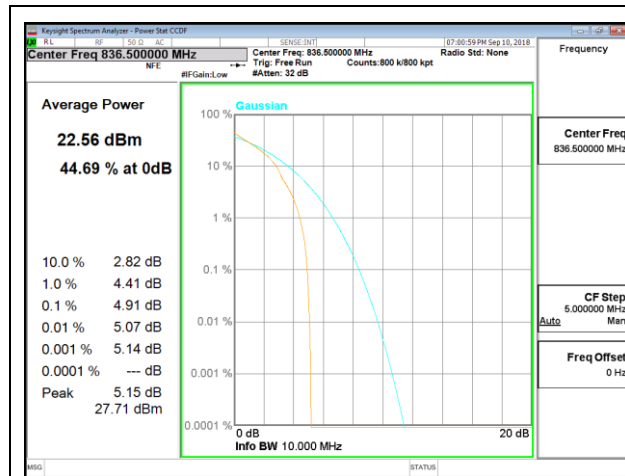
LTE B26 3MHz 16QAM Mid Channel



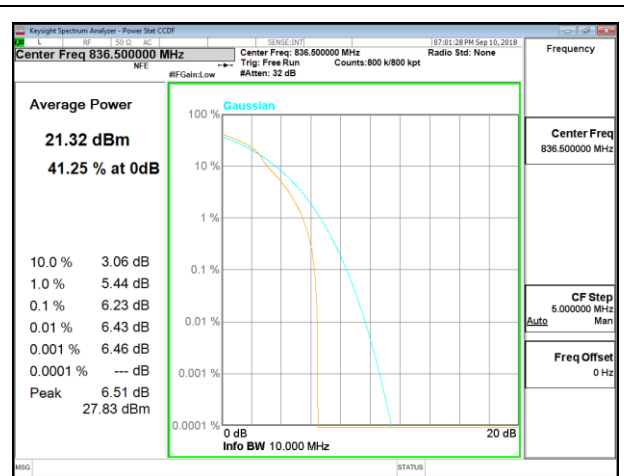
LTE B26 5MHz QPSK Mid Channel



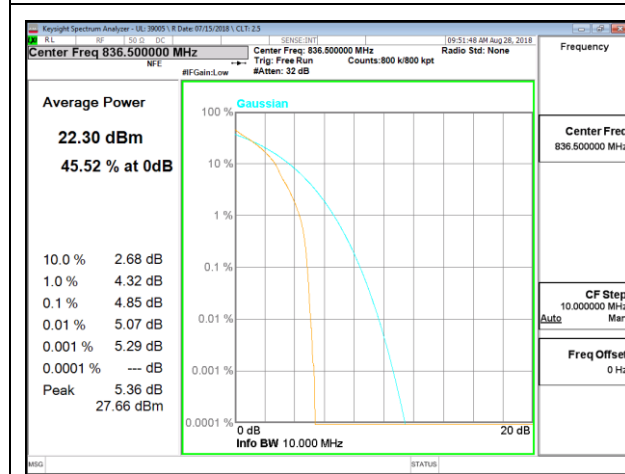
LTE B26 5MHz 16QAM Mid Channel



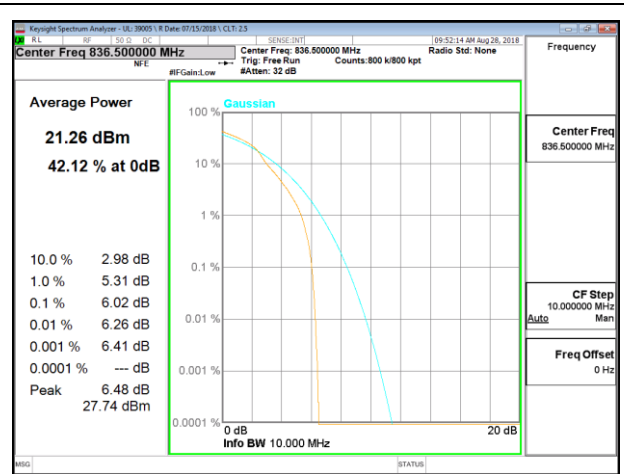
LTE B26 10MHz QPSK Mid Channel



LTE B26 10MHz 16QAM Mid Channel

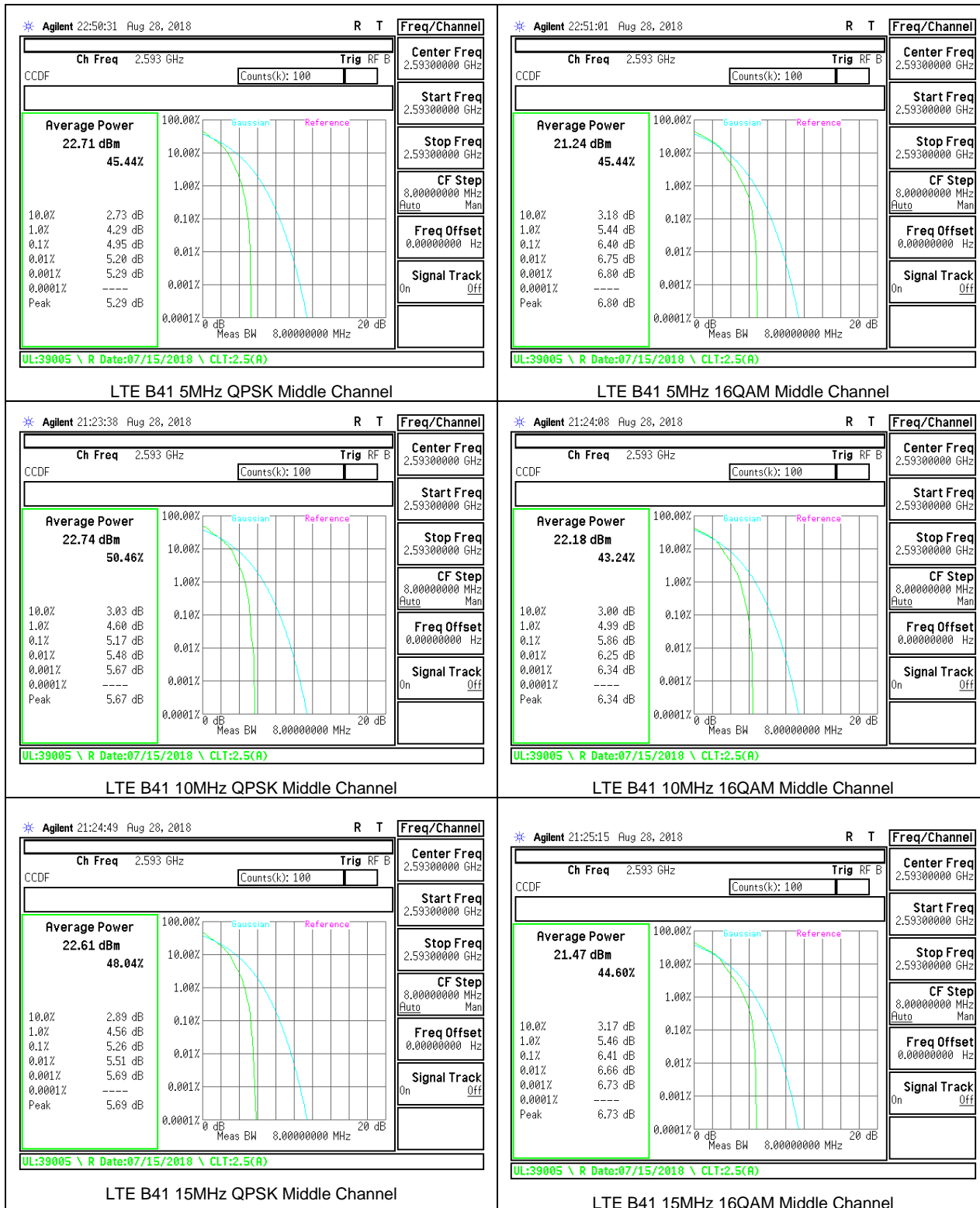


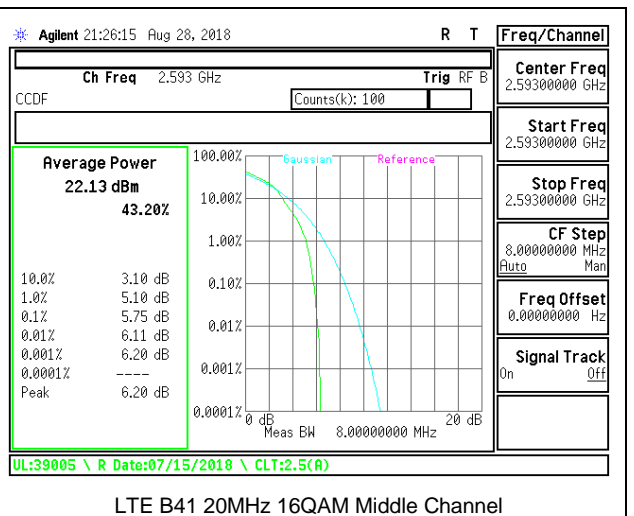
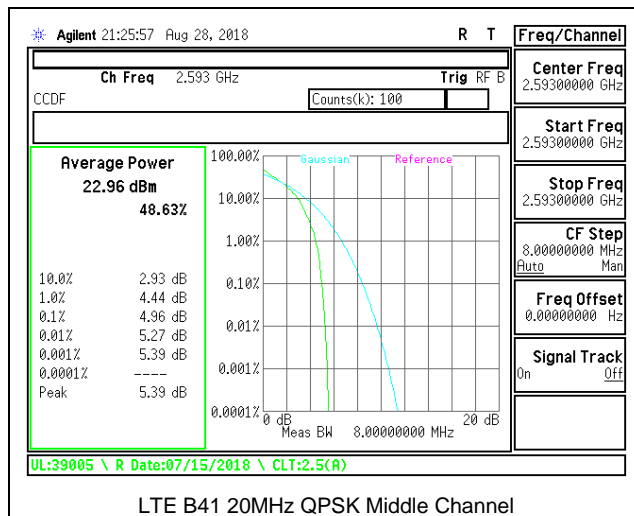
LTE B26 15MHz QPSK Mid Channel



LTE B26 15MHz 16QAM Mid Channel

8.5.8. LTE BAND 41





9. RADIATED TEST RESULTS

9.1. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, §90.691

LIMIT

FCC: §22.917(a), §24.238(a), §27.53 (g), (h), §90.691

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

FCC: §27.53 (m) (Band 41)

At least $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

TEST PROCEDURE

KDB 971168 D01 v02r02/D02 v01

TIA-603-E, Section 2.2.12.

MODES TESTED

- GSM 1900
- WCDM Band 5
- WCDM Band 2
- WCDM Band 4
- LTE Band 4
- LTE Band 5
- LTE Band 17
- LTE Band 26
- LTE Band 41

NOTE: All bandwidths were tested but only highest bandwidth recorded on the report as worst case.

RESULTS

9.1.1. GSM

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	GPRS 1900MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1850.2MHz												
1	1.85	-70.62	Pk	30.4	-35.4	11.1	-64.52	-13	-51.52	0-360	150	H
2	3.7	-68.65	Pk	33.2	-32.5	10.8	-57.15	-13	-44.15	0-360	150	H
3	5.554	-70.83	Pk	34.6	-29.9	10.8	-55.33	-13	-42.33	0-360	150	H
4	7.381	-71.65	Pk	35.5	-27	10.4	-52.75	-13	-39.75	0-360	150	H
5	1.85	-68.59	Pk	30.4	-35.4	11.3	-62.29	-13	-49.29	0-360	150	V
6	3.707	-68.87	Pk	33.2	-32.6	10.9	-57.37	-13	-44.37	0-360	150	V
7	5.566	-68.62	Pk	34.6	-29.9	10.9	-53.02	-13	-40.02	0-360	150	V
8	7.389	-72.39	Pk	35.5	-26.9	10.9	-52.89	-13	-39.89	0-360	150	V
1880MHz												
1	1.88	-68.74	Pk	30.4	-35.4	11.4	-62.34	-13	-49.34	0-360	150	H
2	3.758	-68.79	Pk	33.3	-32.5	10.4	-57.59	-13	-44.59	0-360	150	H
3	5.643	-69.9	Pk	34.6	-29.4	10.1	-54.6	-13	-41.6	0-360	150	H
4	7.513	-71.18	Pk	35.6	-26.8	10.5	-51.88	-13	-38.88	0-360	150	H
5	1.88	-67.49	Pk	30.4	-35.4	11.8	-60.69	-13	-47.69	0-360	150	V
6	3.765	-68.72	Pk	33.4	-32.5	10.4	-57.42	-13	-44.42	0-360	150	V
7	5.64	-71.01	Pk	34.6	-29.4	10.5	-55.31	-13	-42.31	0-360	150	V
8	7.515	-72.4	Pk	35.6	-26.8	10.8	-52.8	-13	-39.8	0-360	150	V
1909.8MHz												
1	1.909	-66.97	Pk	30.5	-35.4	11.3	-60.57	-13	-47.57	0-360	150	H
2	3.809	-68.86	Pk	33.4	-32.3	10.2	-57.56	-13	-44.56	0-360	150	H
3	5.736	-70.87	Pk	34.9	-29.3	10.4	-54.87	-13	-41.87	0-360	150	H
4	7.634	-73.17	Pk	35.6	-26.6	10.5	-53.67	-13	-40.67	0-360	150	H
5	1.91	-67.18	Pk	30.5	-35.4	11.4	-60.68	-13	-47.68	0-360	150	V
6	3.814	-68.43	Pk	33.4	-32.3	10.3	-57.03	-13	-44.03	0-360	150	V
7	5.732	-71.11	Pk	34.9	-29.4	10.6	-55.01	-13	-42.01	0-360	150	V
8	7.64	-72.64	Pk	35.6	-26.6	10.5	-53.14	-13	-40.14	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	EGPRS 1900MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						1850.2MHz						
1	1.85	-70.01	Pk	30.4	-35.4	11.1	-63.91	-13	-50.91	0-360	150	H
2	3.702	-68.6	Pk	33.2	-32.5	10.7	-57.2	-13	-44.2	0-360	150	H
3	5.544	-69.87	Pk	34.6	-29.9	10.6	-54.57	-13	-41.57	0-360	150	H
4	7.411	-72.16	Pk	35.6	-26.9	10.3	-53.16	-13	-40.16	0-360	150	H
5	1.85	-67.8	Pk	30.4	-35.4	11.3	-61.5	-13	-48.5	0-360	150	V
6	3.696	-68.58	Pk	33.2	-32.5	11.2	-56.68	-13	-43.68	0-360	150	V
7	5.555	-70.26	Pk	34.6	-29.9	10.9	-54.66	-13	-41.66	0-360	150	V
8	7.405	-72.37	Pk	35.6	-26.9	10.6	-53.07	-13	-40.07	0-360	150	V
						1880MHz						
1	1.88	-67.99	Pk	30.4	-35.4	11.4	-61.59	-13	-48.59	0-360	150	H
2	3.757	-68.33	Pk	33.3	-32.5	10.4	-57.13	-13	-44.13	0-360	150	H
3	5.626	-70.68	Pk	34.6	-29.6	10.4	-55.28	-13	-42.28	0-360	150	H
4	7.501	-72.98	Pk	35.6	-26.8	10.6	-53.58	-13	-40.58	0-360	150	H
5	1.88	-68.65	Pk	30.4	-35.4	11.8	-61.85	-13	-48.85	0-360	150	V
6	3.763	-68.25	Pk	33.3	-32.5	10.5	-56.95	-13	-43.95	0-360	150	V
7	5.647	-71.48	Pk	34.6	-29.4	10.5	-55.78	-13	-42.78	0-360	150	V
8	7.512	-73.6	Pk	35.6	-26.8	10.8	-54	-13	-41	0-360	150	V
						1909.8MHz						
1	1.909	-66.51	Pk	30.5	-35.4	11.3	-60.11	-13	-47.11	0-360	150	H
2	3.825	-68.47	Pk	33.4	-32.1	10.3	-56.87	-13	-43.87	0-360	150	H
3	5.726	-70.35	Pk	34.9	-29.3	10.5	-54.25	-13	-41.25	0-360	150	H
4	7.639	-72.63	Pk	35.6	-26.6	10.3	-53.33	-13	-40.33	0-360	150	H
5	1.91	-68.46	Pk	30.5	-35.4	11.4	-61.96	-13	-48.96	0-360	150	V
6	3.824	-68.24	Pk	33.4	-32.2	10.5	-56.54	-13	-43.54	0-360	150	V
7	5.721	-70.41	Pk	34.9	-29.4	10.3	-54.61	-13	-41.61	0-360	150	V
8	7.644	-72.73	Pk	35.6	-26.6	10.4	-53.33	-13	-40.33	0-360	150	V

9.1.2. WCDMA

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	REL99 B5
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						826.4MHz						
1	1.653	-65.51	PK	28.5	-35.5	10.2	-62.31	-13	-49.31	0-360	150	H
2	3.307	-66.9	PK	32.8	-33.5	10.8	-56.8	-13	-43.8	0-360	150	H
3	4.948	-69.39	PK	34.2	-30.9	10.4	-55.69	-13	-42.69	0-360	150	H
4	1.653	-66.21	PK	28.5	-35.5	11.1	-62.11	-13	-49.11	0-360	150	V
5	3.307	-68	PK	32.8	-33.5	11.3	-57.4	-13	-44.4	0-360	150	V
6	4.953	-69.11	PK	34.2	-30.9	10.6	-55.21	-13	-42.21	0-360	150	V
						836.6MHz						
1	1.673	-56.8	PK	28.6	-35.5	9.9	-53.8	-13	-40.8	0-360	150	H
2	3.337	-68.05	PK	32.8	-33.4	10.8	-57.85	-13	-44.85	0-360	150	H
3	5.026	-69.32	PK	34.3	-30.9	10.3	-55.62	-13	-42.62	0-360	150	H
4	1.673	-60.58	PK	28.6	-35.5	11.3	-56.18	-13	-43.18	0-360	150	V
5	3.345	-67.72	PK	32.8	-33.4	10.8	-57.52	-13	-44.52	0-360	150	V
6	5.013	-68.51	PK	34.3	-30.8	10.6	-54.41	-13	-41.41	0-360	150	V
						846.6MHz						
1	1.693	-57.46	PK	28.7	-35.5	11.3	-52.96	-13	-39.96	0-360	150	H
2	3.384	-67.59	PK	32.7	-33.4	11	-57.29	-13	-44.29	0-360	150	H
3	5.07	-69.76	PK	34.3	-30.5	10.3	-55.66	-13	-42.66	0-360	150	H
4	1.693	-60.57	PK	28.7	-35.5	12	-55.37	-13	-42.37	0-360	150	V
5	3.39	-67.9	PK	32.6	-33.3	11.1	-57.5	-13	-44.5	0-360	150	V
6	5.074	-68.31	PK	34.3	-30.4	10.4	-54.01	-13	-41.01	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	HSDPA B5
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
							826.4MHz					
1	1.652	-66.76	Pk	28.5	-35.5	10.2	-63.56	-13	-50.56	0-360	150	H
2	3.303	-66.89	Pk	32.8	-33.5	10.7	-56.89	-13	-43.89	0-360	150	H
3	4.965	-68.44	Pk	34.2	-30.9	10.2	-54.94	-13	-41.94	0-360	150	H
4	1.652	-67.8	Pk	28.5	-35.5	11.1	-63.7	-13	-50.7	0-360	150	V
5	3.301	-66.76	Pk	32.8	-33.4	11	-56.36	-13	-43.36	0-360	150	V
6	4.951	-69.25	Pk	34.2	-30.9	10.7	-55.25	-13	-42.25	0-360	150	V
							836.6MHz					
1	1.673	-57.32	Pk	28.6	-35.5	9.9	-54.32	-13	-41.32	0-360	150	H
2	3.344	-68.08	Pk	32.8	-33.4	10.6	-58.08	-13	-45.08	0-360	150	H
3	5.024	-69.29	Pk	34.3	-30.9	10.4	-55.49	-13	-42.49	0-360	150	H
4	1.673	-62.03	Pk	28.6	-35.5	11.3	-57.63	-13	-44.63	0-360	150	V
5	3.349	-67.58	Pk	32.8	-33.5	10.7	-57.58	-13	-44.58	0-360	150	V
6	5.013	-69.63	Pk	34.3	-30.8	10.6	-55.53	-13	-42.53	0-360	150	V
							846.6MHz					
1	1.693	-58.85	Pk	28.7	-35.5	11.3	-54.35	-13	-41.35	0-360	150	H
2	3.396	-67.36	Pk	32.6	-33.4	11	-57.16	-13	-44.16	0-360	150	H
3	5.082	-68.69	Pk	34.3	-30.6	10.2	-54.79	-13	-41.79	0-360	150	H
4	1.693	-62.84	Pk	28.7	-35.5	12	-57.64	-13	-44.64	0-360	150	V
5	3.392	-67.6	Pk	32.6	-33.3	11.1	-57.2	-13	-44.2	0-360	150	V
6	5.082	-69.18	Pk	34.3	-30.6	10.4	-55.08	-13	-42.08	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	REL99 B2
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						1852.4MHz						
1	1.852	-66.15	Pk	30.4	-35.4	11.1	-60.05	-13	-47.05	0-360	150	H
2	3.699	-68.43	Pk	33.2	-32.5	10.8	-56.93	-13	-43.93	0-360	150	H
3	5.555	-70.7	Pk	34.6	-29.9	10.8	-55.2	-13	-42.2	0-360	150	H
4	7.428	-73.12	Pk	35.5	-26.8	10.5	-53.92	-13	-40.92	0-360	150	H
5	1.852	-63.53	Pk	30.4	-35.4	11.4	-57.13	-13	-44.13	0-360	150	V
6	3.7	-68.18	Pk	33.2	-32.5	11.1	-56.38	-13	-43.38	0-360	150	V
7	5.554	-69.98	Pk	34.6	-29.9	10.9	-54.38	-13	-41.38	0-360	150	V
8	7.415	-72.91	Pk	35.6	-26.9	10.6	-53.61	-13	-40.61	0-360	150	V
						1880MHz						
1	1.88	-64.98	Pk	30.4	-35.4	11.4	-58.58	-13	-45.58	0-360	150	H
2	3.763	-68.2	Pk	33.3	-32.5	10.3	-57.1	-13	-44.1	0-360	150	H
3	5.624	-70.83	Pk	34.6	-29.6	10.5	-55.33	-13	-42.33	0-360	150	H
4	7.517	-72.84	Pk	35.6	-26.8	10.5	-53.54	-13	-40.54	0-360	150	H
5	1.88	-65.75	Pk	30.4	-35.4	11.8	-58.95	-13	-45.95	0-360	150	V
6	3.759	-69.02	Pk	33.3	-32.5	10.7	-57.52	-13	-44.52	0-360	150	V
7	5.646	-70.72	Pk	34.6	-29.4	10.5	-55.02	-13	-42.02	0-360	150	V
8	7.509	-73.33	Pk	35.6	-26.8	10.8	-53.73	-13	-40.73	0-360	150	V
						1907.6MHz						
1	1.907	-64.23	Pk	30.5	-35.4	11.1	-58.03	-13	-45.03	0-360	150	H
2	3.809	-68.12	Pk	33.4	-32.3	10.2	-56.82	-13	-43.82	0-360	150	H
3	5.723	-69.95	Pk	34.9	-29.3	10.3	-54.05	-13	-41.05	0-360	150	H
4	7.619	-72.72	Pk	35.6	-26.6	10.4	-53.32	-13	-40.32	0-360	150	H
5	1.907	-65.71	Pk	30.5	-35.4	11.4	-59.21	-13	-46.21	0-360	150	V
6	3.811	-68.64	Pk	33.4	-32.3	10.3	-57.24	-13	-44.24	0-360	150	V
7	5.722	-70.69	Pk	34.9	-29.4	10.4	-54.79	-13	-41.79	0-360	150	V
8	7.637	-72.78	Pk	35.6	-26.6	10.6	-53.18	-13	-40.18	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	HSDPA B2
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						1852.4MHz						
1	1.852	-65.32	Pk	30.4	-35.4	11.1	-59.22	-13	-46.22	0-360	150	H
2	3.694	-68.8	Pk	33.1	-32.6	10.9	-57.4	-13	-44.4	0-360	150	H
3	5.55	-70.4	Pk	34.6	-29.9	10.7	-55	-13	-42	0-360	150	H
4	7.408	-72.96	Pk	35.6	-26.9	10.4	-53.86	-13	-40.86	0-360	150	H
5	1.852	-65.74	Pk	30.4	-35.4	11.5	-59.24	-13	-46.24	0-360	150	V
6	3.7	-67.98	Pk	33.2	-32.5	11.1	-56.18	-13	-43.18	0-360	150	V
7	5.55	-70.22	Pk	34.6	-29.9	10.9	-54.62	-13	-41.62	0-360	150	V
8	7.409	-73.74	Pk	35.6	-26.9	10.7	-54.34	-13	-41.34	0-360	150	V
						1880MHz						
1	1.88	-64.37	Pk	30.4	-35.4	11.4	-57.97	-13	-44.97	0-360	150	H
2	3.761	-67.51	Pk	33.3	-32.5	10.3	-56.41	-13	-43.41	0-360	150	H
3	5.646	-71	Pk	34.6	-29.4	10.1	-55.7	-13	-42.7	0-360	150	H
4	7.506	-73.19	Pk	35.6	-26.8	10.5	-53.89	-13	-40.89	0-360	150	H
5	1.88	-65.05	Pk	30.4	-35.4	11.8	-58.25	-13	-45.25	0-360	150	V
6	3.755	-68.7	Pk	33.3	-32.5	10.8	-57.1	-13	-44.1	0-360	150	V
7	5.635	-71.24	Pk	34.6	-29.5	10.7	-55.44	-13	-42.44	0-360	150	V
8	7.508	-72.38	Pk	35.6	-26.8	10.8	-52.78	-13	-39.78	0-360	150	V
						1907.6MHz						
1	1.907	-63.3	Pk	30.5	-35.4	11.1	-57.1	-13	-44.1	0-360	150	H
2	3.805	-68.16	Pk	33.4	-32.3	10.2	-56.86	-13	-43.86	0-360	150	H
3	5.735	-70.69	Pk	34.9	-29.3	10.4	-54.69	-13	-41.69	0-360	150	H
4	7.619	-72.84	Pk	35.6	-26.6	10.4	-53.44	-13	-40.44	0-360	150	H
5	1.907	-65.33	Pk	30.5	-35.4	11.4	-58.83	-13	-45.83	0-360	150	V
6	3.814	-67.5	Pk	33.4	-32.3	10.3	-56.1	-13	-43.1	0-360	150	V
7	5.715	-71.72	Pk	34.9	-29.3	10.4	-55.72	-13	-42.72	0-360	150	V
8	7.635	-73.9	Pk	35.6	-26.6	10.6	-54.3	-13	-41.3	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	REL99 B4
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						1712.4MHz						
1	1.712	-62.87	Pk	28.9	-35.5	11.3	-58.17	-13	-45.17	0-360	150	H
2	3.423	-59.64	Pk	32.6	-33.4	11	-49.44	-13	-36.44	0-360	150	H
3	5.146	-69.2	Pk	34.4	-30.6	10.2	-55.2	-13	-42.2	0-360	150	H
4	6.857	-72.19	Pk	35.5	-27.3	10.4	-53.59	-13	-40.59	0-360	150	H
5	1.712	-62.52	Pk	28.9	-35.5	12.1	-57.02	-13	-44.02	0-360	150	V
6	3.426	-62.67	Pk	32.6	-33.3	11.1	-52.27	-13	-39.27	0-360	150	V
7	5.141	-69.6	Pk	34.4	-30.6	10.4	-55.4	-13	-42.4	0-360	150	V
8	6.846	-71.89	Pk	35.5	-27.4	10.5	-53.29	-13	-40.29	0-360	150	V
						1732.6MHz						
1	1.732	-65.67	Pk	29.3	-35.5	12.3	-59.57	-13	-46.57	0-360	150	H
2	3.463	-58.43	Pk	32.6	-33.3	11	-48.13	-13	-35.13	0-360	150	H
3	5.2	-70.5	Pk	34.4	-30.4	10.5	-56	-13	-43	0-360	150	H
4	6.938	-72.23	Pk	35.5	-27.4	10.4	-53.73	-13	-40.73	0-360	150	H
5	1.732	-61.18	Pk	29.3	-35.5	12.6	-54.78	-13	-41.78	0-360	150	V
6	3.463	-61.39	Pk	32.6	-33.3	10.9	-51.19	-13	-38.19	0-360	150	V
7	5.203	-70.02	Pk	34.4	-30.4	10.7	-55.32	-13	-42.32	0-360	150	V
8	6.922	-71.42	Pk	35.5	-27.3	10.5	-52.72	-13	-39.72	0-360	150	V
						1752.6MHz						
1	1.752	-63.6	Pk	29.6	-35.5	12.4	-57.1	-13	-44.1	0-360	150	H
2	3.503	-61.97	Pk	32.6	-33.2	11.2	-51.37	-13	-38.37	0-360	150	H
3	5.268	-70.02	Pk	34.4	-30.1	10.7	-55.02	-13	-42.02	0-360	150	H
4	7.004	-71.7	Pk	35.5	-27.4	10.1	-53.5	-13	-40.5	0-360	150	H
5	1.752	-62.13	Pk	29.6	-35.5	11.7	-56.33	-13	-43.33	0-360	150	V
6	3.506	-65.44	Pk	32.7	-33.2	10.7	-55.24	-13	-42.24	0-360	150	V
7	5.257	-70.01	Pk	34.4	-30.2	10.7	-55.11	-13	-42.11	0-360	150	V
8	7.004	-72.27	Pk	35.5	-27.4	10.6	-53.57	-13	-40.57	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	HSDPA B4
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						1712.4MHz						
1	1.712	-66.02	Pk	29	-35.5	11.3	-61.22	-13	-48.22	0-360	150	H
2	3.423	-57.83	Pk	32.6	-33.4	11	-47.63	-13	-34.63	0-360	150	H
3	5.14	-69.59	Pk	34.4	-30.6	10.2	-55.59	-13	-42.59	0-360	150	H
4	6.845	-72.57	Pk	35.5	-27.4	10.4	-54.07	-13	-41.07	0-360	150	H
5	1.712	-61.25	Pk	28.9	-35.5	12.1	-55.75	-13	-42.75	0-360	150	V
6	3.422	-59.8	Pk	32.6	-33.4	11.2	-49.4	-13	-36.4	0-360	150	V
7	5.132	-69.43	Pk	34.4	-30.5	10.6	-54.93	-13	-41.93	0-360	150	V
8	6.849	-72.71	Pk	35.5	-27.4	10.5	-54.11	-13	-41.11	0-360	150	V
						1732.6MHz						
1	1.732	-65.3	Pk	29.3	-35.5	12.3	-59.2	-13	-46.2	0-360	150	H
2	3.463	-64.71	Pk	32.6	-33.3	11	-54.41	-13	-41.41	0-360	150	H
3	5.209	-70.51	Pk	34.4	-30.4	10.9	-55.61	-13	-42.61	0-360	150	H
4	6.914	-72.33	Pk	35.5	-27.3	10.1	-54.03	-13	-41.03	0-360	150	H
5	1.732	-62.46	Pk	29.3	-35.5	12.6	-56.06	-13	-43.06	0-360	150	V
6	3.462	-66.4	Pk	32.6	-33.3	10.9	-56.2	-13	-43.2	0-360	150	V
7	5.198	-70.18	Pk	34.4	-30.4	10.4	-55.78	-13	-42.78	0-360	150	V
8	6.927	-71.8	Pk	35.5	-27.4	10.4	-53.3	-13	-40.3	0-360	150	V
						1752.6MHz						
1	1.752	-63.69	Pk	29.6	-35.5	12.4	-57.19	-13	-44.19	0-360	150	H
2	3.507	-59.29	Pk	32.7	-33.2	10.9	-48.89	-13	-35.89	0-360	150	H
3	5.265	-70.07	Pk	34.4	-30.1	10.7	-55.07	-13	-42.07	0-360	150	H
4	6.999	-72.54	Pk	35.5	-27.4	10.3	-54.14	-13	-41.14	0-360	150	H
5	1.752	-60.7	Pk	29.6	-35.5	11.7	-54.9	-13	-41.9	0-360	150	V
6	3.503	-63.54	Pk	32.7	-33.2	10.8	-53.24	-13	-40.24	0-360	150	V
7	5.262	-70.52	Pk	34.4	-30	10.8	-55.32	-13	-42.32	0-360	150	V
8	7.003	-72.77	Pk	35.5	-27.3	10.7	-53.87	-13	-40.87	0-360	150	V

9.1.3. LTE BAND 4

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	39004
Configuration:	EUT+ Support Equipment
Mode:	LTE 4 QPSK 20MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						1720MHz						
1	3.438	-65.11	PK	32.6	-33.3	10.8	-55.01	-13	-42.01	0-360	150	H
2	* 5.134	-66.8	PK	34.4	-30.5	10.1	-52.8	-13	-39.8	0-360	150	H
3	6.871	-72.88	PK	35.5	-27.3	10.6	-54.08	-13	-41.08	0-360	150	H
4	6.881	-72.1	PK	35.5	-27.4	10.7	-53.3	-13	-40.3	0-360	150	V
5	* 5.133	-69.07	PK	34.4	-30.5	10.5	-54.67	-13	-41.67	0-360	150	V
6	3.42	-65.64	PK	32.6	-33.3	11.2	-55.14	-13	-42.14	0-360	150	V
						1732.5MHz						
1	3.455	-64.72	PK	32.6	-33.2	11.2	-54.12	-13	-41.12	0-360	150	H
2	5.19	-70.02	PK	34.4	-30.4	10.5	-55.52	-13	-42.52	0-360	150	H
3	6.969	-71.74	PK	35.5	-27.3	10	-53.54	-13	-40.54	0-360	150	H
4	6.976	-72.97	PK	35.5	-27.3	10.4	-54.37	-13	-41.37	0-360	150	V
5	5.197	-69.63	PK	34.4	-30.4	10.3	-55.33	-13	-42.33	0-360	150	V
6	3.471	-66.42	PK	32.6	-33.2	10.9	-56.12	-13	-43.12	0-360	150	V
						1745MHz						
1	* 3.506	-66.03	PK	32.7	-33.2	11	-55.53	-13	-42.53	0-360	150	H
2	5.231	-69.68	PK	34.4	-30.1	10.5	-54.88	-13	-41.88	0-360	150	H
3	6.974	-73.06	PK	35.5	-27.3	10.1	-54.76	-13	-41.76	0-360	150	H
4	6.939	-71.93	PK	35.5	-27.4	10.5	-53.33	-13	-40.33	0-360	150	V
5	5.239	-70.13	PK	34.4	-30.2	10.7	-55.23	-13	-42.23	0-360	150	V
6	* 3.52	-66.31	PK	32.7	-33.2	10.4	-56.41	-13	-43.41	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	39004
Configuration:	EUT+ Support Equipment
Mode:	LTE 4 16QAM 20MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						1720MHz						
1	3.451	-65.29	Pk	32.6	-33.3	11.1	-54.89	-13	-41.89	0-360	150	H
2	5.175	-69	Pk	34.4	-30.4	10.4	-54.6	-13	-41.6	0-360	150	H
3	6.87	-72.15	Pk	35.5	-27.3	10.6	-53.35	-13	-40.35	0-360	150	H
4	6.886	-72.03	Pk	35.5	-27.4	10.7	-53.23	-13	-40.23	0-360	150	V
5	* 5.113	-69.35	Pk	34.4	-30.5	10.8	-54.65	-13	-41.65	0-360	150	V
6	3.429	-66.53	Pk	32.6	-33.3	11.1	-56.13	-13	-43.13	0-360	150	V
						1732.5MHz						
1	3.472	-65.51	Pk	32.6	-33.2	11	-55.11	-13	-42.11	0-360	150	H
2	5.212	-69.14	Pk	34.4	-30.5	10.9	-54.34	-13	-41.34	0-360	150	H
3	6.921	-71.04	Pk	35.5	-27.3	10.2	-52.64	-13	-39.64	0-360	150	H
4	6.875	-71.59	Pk	35.5	-27.4	10.7	-52.79	-13	-39.79	0-360	150	V
5	5.185	-69.12	Pk	34.4	-30.4	10.6	-54.52	-13	-41.52	0-360	150	V
6	3.451	-66.8	Pk	32.6	-33.3	11.2	-56.3	-13	-43.3	0-360	150	V
						1745MHz						
1	3.488	-66.19	Pk	32.6	-33.2	11.1	-55.69	-13	-42.69	0-360	150	H
2	5.218	-69.66	Pk	34.4	-30.4	10.9	-54.76	-13	-41.76	0-360	150	H
3	* 7.284	-70.57	Pk	35.5	-26.9	10.3	-51.67	-13	-38.67	0-360	150	H
4	7.092	-71.67	Pk	35.6	-27	10.6	-52.47	-13	-39.47	0-360	150	V
5	5.239	-69.53	Pk	34.4	-30.2	10.7	-54.63	-13	-41.63	0-360	150	V
6	3.463	-66.82	Pk	32.6	-33.3	10.9	-56.62	-13	-43.62	0-360	150	V

9.1.4. LTE BAND 5

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 5 QPSK 10MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						829MHz						
1	1.658	-67.53	PK	28.5	-35.4	10.3	-64.13	-13	-51.13	0-360	150	H
2	2.487	-67.88	PK	32.3	-35.3	10.2	-60.68	-13	-47.68	0-360	150	H
3	3.316	-69.39	PK	32.8	-33.4	10.9	-59.09	-13	-46.09	0-360	150	H
4	1.658	-68.19	PK	28.5	-35.4	11	-64.09	-13	-51.09	0-360	150	V
5	2.487	-68.71	PK	32.3	-35.3	10.2	-61.51	-13	-48.51	0-360	150	V
6	3.316	-69.72	PK	32.8	-33.4	11.2	-59.12	-13	-46.12	0-360	150	V
						836.5MHz						
1	1.673	-68.17	PK	28.6	-35.5	9.9	-65.17	-13	-52.17	0-360	150	H
2	2.509	-67.29	PK	32.3	-35.3	10.1	-60.19	-13	-47.19	0-360	150	H
3	3.346	-68.08	PK	32.8	-33.5	10.6	-58.18	-13	-45.18	0-360	150	H
4	1.673	-66.57	PK	28.6	-35.5	11.3	-62.17	-13	-49.17	0-360	150	V
5	2.509	-67.23	PK	32.3	-35.3	11.5	-58.73	-13	-45.73	0-360	150	V
6	3.346	-69.33	PK	32.8	-33.5	10.8	-59.23	-13	-46.23	0-360	150	V
						844MHz						
1	1.688	-66.43	PK	28.7	-35.4	10.5	-62.63	-13	-49.63	0-360	150	H
2	2.532	-67.4	PK	32.3	-35.3	9.9	-60.5	-13	-47.5	0-360	150	H
3	3.376	-69.3	PK	32.7	-33.4	10.9	-59.1	-13	-46.1	0-360	150	H
4	1.688	-67.01	PK	28.7	-35.4	11.7	-62.01	-13	-49.01	0-360	150	V
5	2.532	-68.01	PK	32.3	-35.3	10.8	-60.21	-13	-47.21	0-360	150	V
6	3.376	-68.78	PK	32.7	-33.4	11.1	-58.38	-13	-45.38	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 5 16QAM 10MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						829MHz						
1	1.658	-69.11	Pk	28.5	-35.4	10.3	-65.71	-13	-52.71	0-360	150	H
2	2.487	-68.77	Pk	32.3	-35.3	10.2	-61.57	-13	-48.57	0-360	150	H
3	3.316	-69.08	Pk	32.8	-33.4	10.9	-58.78	-13	-45.78	0-360	150	H
4	1.658	-67.63	Pk	28.5	-35.4	11	-63.53	-13	-50.53	0-360	150	V
5	2.487	-67.21	Pk	32.3	-35.3	10.2	-60.01	-13	-47.01	0-360	150	V
6	3.316	-67.9	Pk	32.8	-33.4	11.2	-57.3	-13	-44.3	0-360	150	V
						836.5MHz						
1	1.673	-67.63	Pk	28.6	-35.5	9.9	-64.63	-13	-51.63	0-360	150	H
2	2.509	-66.52	Pk	32.3	-35.3	10.1	-59.42	-13	-46.42	0-360	150	H
3	3.346	-70.03	Pk	32.8	-33.5	10.6	-60.13	-13	-47.13	0-360	150	H
4	1.673	-67.39	Pk	28.6	-35.5	11.3	-62.99	-13	-49.99	0-360	150	V
5	2.509	-66.24	Pk	32.3	-35.3	11.5	-57.74	-13	-44.74	0-360	150	V
6	3.346	-68.87	Pk	32.8	-33.5	10.8	-58.77	-13	-45.77	0-360	150	V
						844MHz						
1	1.688	-67.08	Pk	28.7	-35.4	10.5	-63.28	-13	-50.28	0-360	150	H
2	2.532	-67.38	Pk	32.3	-35.3	9.9	-60.48	-13	-47.48	0-360	150	H
3	3.376	-68.75	Pk	32.7	-33.4	10.9	-58.55	-13	-45.55	0-360	150	H
4	1.688	-65.42	Pk	28.7	-35.4	11.7	-60.42	-13	-47.42	0-360	150	V
5	2.532	-67.8	Pk	32.3	-35.3	10.8	-60	-13	-47	0-360	150	V
6	3.376	-68.98	Pk	32.7	-33.4	11.1	-58.58	-13	-45.58	0-360	150	V

9.1.5. LTE BAND 17

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 17 QPSK 10MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						709MHz						
1	1.418	-67.96	PK	28.7	-35.4	11.2	-63.46	-13	-50.46	0-360	150	H
2	2.127	-67.78	PK	31.6	-35.4	10.3	-61.28	-13	-48.28	0-360	150	H
3	2.836	-68.41	PK	32.3	-34.9	11	-60.01	-13	-47.01	0-360	150	H
4	1.418	-68.74	PK	28.7	-35.4	12.3	-63.14	-13	-50.14	0-360	150	V
5	2.127	-67.14	PK	31.6	-35.4	11.2	-59.74	-13	-46.74	0-360	150	V
6	2.836	-68.01	PK	32.3	-34.9	11.4	-59.21	-13	-46.21	0-360	150	V
						710MHz						
1	1.42	-66.83	PK	28.7	-35.4	11.2	-62.33	-13	-49.33	0-360	150	H
2	2.13	-66.1	PK	31.6	-35.4	10.4	-59.5	-13	-46.5	0-360	150	H
3	2.84	-67.53	PK	32.3	-34.9	11.3	-58.83	-13	-45.83	0-360	150	H
4	1.42	-68.38	PK	28.7	-35.4	12.2	-62.88	-13	-49.88	0-360	150	V
5	2.13	-66.6	PK	31.6	-35.4	11.2	-59.2	-13	-46.2	0-360	150	V
6	2.84	-68.89	PK	32.3	-34.9	11.5	-59.99	-13	-46.99	0-360	150	V
						711MHz						
1	1.422	-68.93	PK	28.7	-35.4	11.2	-64.43	-13	-51.43	0-360	150	H
2	2.133	-67.36	PK	31.6	-35.4	10.5	-60.66	-13	-47.66	0-360	150	H
3	2.844	-68.46	PK	32.3	-34.9	11.3	-59.76	-13	-46.76	0-360	150	H
4	1.422	-67.3	PK	28.7	-35.4	12	-62	-13	-49	0-360	150	V
5	2.133	-66.92	PK	31.6	-35.4	11.2	-59.52	-13	-46.52	0-360	150	V
6	2.844	-68.5	PK	32.3	-34.9	11.4	-59.7	-13	-46.7	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 17 16QAM 10MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						709MHz						
1	1.418	-68.02	Pk	28.7	-35.4	11.2	-63.52	-13	-50.52	0-360	150	H
2	2.127	-65.88	Pk	31.6	-35.4	10.3	-59.38	-13	-46.38	0-360	150	H
3	2.836	-68.5	Pk	32.3	-34.9	11	-60.1	-13	-47.1	0-360	150	H
4	1.418	-67.63	Pk	28.7	-35.4	12.3	-62.03	-13	-49.03	0-360	150	V
5	2.127	-67.29	Pk	31.6	-35.4	11.2	-59.89	-13	-46.89	0-360	150	V
6	2.836	-68.69	Pk	32.3	-34.9	11.4	-59.89	-13	-46.89	0-360	150	V
						710MHz						
1	1.42	-68.21	Pk	28.7	-35.4	11.2	-63.71	-13	-50.71	0-360	150	H
2	2.13	-67.1	Pk	31.6	-35.4	10.4	-60.5	-13	-47.5	0-360	150	H
3	2.84	-67.22	Pk	32.3	-34.9	11.3	-58.52	-13	-45.52	0-360	150	H
4	1.42	-68.39	Pk	28.7	-35.4	12.2	-62.89	-13	-49.89	0-360	150	V
5	2.13	-67.77	Pk	31.6	-35.4	11.2	-60.37	-13	-47.37	0-360	150	V
6	2.84	-69.08	Pk	32.3	-34.9	11.5	-60.18	-13	-47.18	0-360	150	V
						711MHz						
1	1.422	-68.39	Pk	28.7	-35.4	11.2	-63.89	-13	-50.89	0-360	150	H
2	2.133	-65.9	Pk	31.6	-35.4	10.5	-59.2	-13	-46.2	0-360	150	H
3	2.844	-68.89	Pk	32.3	-34.9	11.3	-60.19	-13	-47.19	0-360	150	H
4	1.422	-66.41	Pk	28.7	-35.4	12	-61.11	-13	-48.11	0-360	150	V
5	2.133	-67.5	Pk	31.6	-35.4	11.2	-60.1	-13	-47.1	0-360	150	V
6	2.844	-67.93	Pk	32.3	-34.9	11.4	-59.13	-13	-46.13	0-360	150	V

9.1.6. LTE BAND 26

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 26 QPSK 15MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						831.5MHz						
1	1.643	-67.5	PK	28.4	-35.5	10.4	-64.2	-13	-51.2	0-360	150	H
2	2.465	-68.1	PK	32.2	-35.3	10.8	-60.4	-13	-47.4	0-360	150	H
3	3.286	-69.88	PK	32.9	-33.6	10.9	-59.68	-13	-46.68	0-360	150	H
4	1.643	-66.21	PK	28.4	-35.5	11.2	-62.11	-13	-49.11	0-360	150	V
5	2.465	-67.17	PK	32.2	-35.3	11	-59.27	-13	-46.27	0-360	150	V
6	3.286	-70.28	PK	32.9	-33.6	10.8	-60.18	-13	-47.18	0-360	150	V
						836.5MHz						
1	1.663	-67.83	PK	28.6	-35.5	10.3	-64.43	-13	-51.43	0-360	150	H
2	2.494	-68.2	PK	32.3	-35.3	9.8	-61.4	-13	-48.4	0-360	150	H
3	3.326	-69.8	PK	32.8	-33.4	11	-59.4	-13	-46.4	0-360	150	H
4	1.663	-65.74	PK	28.6	-35.5	11	-61.64	-13	-48.64	0-360	150	V
5	2.494	-68.59	PK	32.3	-35.3	10.8	-60.79	-13	-47.79	0-360	150	V
6	3.326	-69.86	PK	32.8	-33.3	11	-59.36	-13	-46.36	0-360	150	V
						841.5MHz						
1	1.683	-68.39	PK	28.7	-35.5	10.1	-65.09	-13	-52.09	0-360	150	H
2	2.525	-67.77	PK	32.3	-35.3	10.3	-60.47	-13	-47.47	0-360	150	H
3	3.366	-69.85	PK	32.7	-33.5	10.8	-59.85	-13	-46.85	0-360	150	H
4	1.683	-68.19	PK	28.7	-35.5	11.3	-63.69	-13	-50.69	0-360	150	V
5	2.525	-68.5	PK	32.3	-35.3	11.1	-60.4	-13	-47.4	0-360	150	V
6	3.366	-69.19	PK	32.7	-33.5	10.8	-59.19	-13	-46.19	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	8/31/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 26 16QAM 15MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
							831.5MHz					
1	1.643	-67.78	Pk	28.4	-35.5	10.4	-64.48	-13	-51.48	0-360	150	H
2	2.465	-67.34	Pk	32.2	-35.3	10.8	-59.64	-13	-46.64	0-360	150	H
3	3.286	-69.38	Pk	32.9	-33.6	10.9	-59.18	-13	-46.18	0-360	150	H
4	1.643	-66.92	Pk	28.4	-35.5	11.2	-62.82	-13	-49.82	0-360	150	V
5	2.465	-66.52	Pk	32.2	-35.3	11	-58.62	-13	-45.62	0-360	150	V
6	3.286	-68.41	Pk	32.9	-33.6	10.8	-58.31	-13	-45.31	0-360	150	V
							836.5MHz					
1	1.663	-68.03	Pk	28.6	-35.5	10.3	-64.63	-13	-51.63	0-360	150	H
2	2.494	-65.55	Pk	32.3	-35.3	9.8	-58.75	-13	-45.75	0-360	150	H
3	3.326	-68.84	Pk	32.8	-33.3	11.1	-58.24	-13	-45.24	0-360	150	H
4	1.663	-67.66	Pk	28.6	-35.5	11	-63.56	-13	-50.56	0-360	150	V
5	2.494	-67.72	Pk	32.3	-35.3	10.8	-59.92	-13	-46.92	0-360	150	V
6	3.326	-70.2	Pk	32.8	-33.3	11	-59.7	-13	-46.7	0-360	150	V
							841.5MHz					
1	1.683	-67.54	Pk	28.7	-35.5	10.1	-64.24	-13	-51.24	0-360	150	H
2	2.525	-67.45	Pk	32.3	-35.3	10.3	-60.15	-13	-47.15	0-360	150	H
3	3.366	-70.06	Pk	32.7	-33.5	10.8	-60.06	-13	-47.06	0-360	150	H
4	1.683	-68.28	Pk	28.7	-35.5	11.3	-63.78	-13	-50.78	0-360	150	V
5	2.525	-68.04	Pk	32.3	-35.3	11.1	-59.94	-13	-46.94	0-360	150	V
6	3.366	-70.35	Pk	32.7	-33.5	10.8	-60.35	-13	-47.35	0-360	150	V

9.1.7. LTE BAND 41

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	9/4/18
Test Engineer:	39004
Configuration:	EUT+ Support Equipment
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
						2506MHz						
1	* 5.014	-67.87	PK	34.3	-30.8	10.4	-53.97	-25	-28.97	0-360	150	H
2	* 7.516	-72.78	PK	35.6	-26.8	10.5	-53.48	-25	-28.48	0-360	150	H
3	10.024	-74.5	PK	37.1	-23.9	10.5	-50.8	-25	-25.8	0-360	150	H
4	10.026	-74.79	PK	37.1	-23.9	10.7	-50.89	-25	-25.89	0-360	150	V
5	* 7.519	-73.13	PK	35.6	-26.8	10.7	-53.63	-25	-28.63	0-360	150	V
6	* 5.009	-69.62	PK	34.3	-30.7	10.7	-55.32	-25	-30.32	0-360	150	V
						2593MHz						
1	* 4.175	-67.88	PK	33.4	-31.8	10.9	-55.38	-25	-30.38	0-360	150	H
2	7.762	-71.76	PK	35.7	-26.3	10.4	-51.96	-25	-26.96	0-360	150	H
3	10.362	-74.49	PK	37.4	-23.5	10.4	-50.19	-25	-25.19	0-360	150	H
4	10.416	-72.62	PK	37.4	-23.2	10.4	-48.02	-25	-23.02	0-360	150	V
5	7.804	-72.04	PK	35.7	-26.1	10.7	-51.74	-25	-26.74	0-360	150	V
6	4.405	-66.59	PK	33.8	-31.6	10.7	-53.69	-25	-28.69	0-360	150	V
						2680MHz						
1	* 2.681	-61.12	PK	32.2	-35.1	11.2	-52.82	-25	-27.82	0-360	150	H
2	5.344	-70.38	PK	34.5	-30.2	11	-55.08	-25	-30.08	0-360	150	H
3	* 8.056	-72.79	PK	35.7	-26.1	10.4	-52.79	-25	-27.79	0-360	150	H
4	10.089	-74.23	PK	37.2	-23.8	10.4	-50.43	-25	-25.43	0-360	150	H
5	10.102	-74.62	PK	37.2	-23.9	10.6	-50.72	-25	-25.72	0-360	150	V
6	* 8.038	-72.25	PK	35.7	-26.1	10.8	-51.85	-25	-26.85	0-360	150	V

Company:	SAMSUNG ELECTRONICS CO., LTD.
Project #:	12440940
Date:	9/4/18
Test Engineer:	39004
Configuration:	EUT+ Support Equipment
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber K

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonic Limit	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
							2506MHz					
1	* 5.007	-68.89	Pk	34.3	-30.7	10.4	-54.89	-25	-29.89	0-360	150	H
2	* 7.576	-72.03	Pk	35.6	-26.7	10.5	-52.63	-25	-27.63	0-360	150	H
3	10.006	-73.8	Pk	37.1	-24	10.3	-50.4	-25	-25.4	0-360	150	H
4	10.019	-74.44	Pk	37.1	-23.9	10.6	-50.64	-25	-25.64	0-360	150	V
5	* 7.604	-72.27	Pk	35.5	-26.6	10.5	-52.87	-25	-27.87	0-360	150	V
6	* 5.005	-69.46	Pk	34.3	-30.8	10.7	-55.26	-25	-30.26	0-360	150	V
							2593MHz					
1	* 4.265	-65.78	Pk	33.5	-31.8	10.9	-53.18	-25	-28.18	0-360	150	H
2	7.804	-72.85	Pk	35.7	-26.1	10.7	-52.55	-25	-27.55	0-360	150	H
3	10.313	-73.4	Pk	37.3	-23.7	10.5	-49.3	-25	-24.3	0-360	150	H
4	10.166	-73.6	Pk	37.2	-23.8	10.7	-49.5	-25	-24.5	0-360	150	V
5	7.837	-72.49	Pk	35.7	-26.2	10.5	-52.49	-25	-27.49	0-360	150	V
6	* 4.398	-67.77	Pk	33.8	-31.6	10.8	-54.77	-25	-29.77	0-360	150	V
							2680MHz					
1	* 2.686	-61.1	Pk	32.2	-35.1	11.2	-52.8	-25	-27.8	0-360	150	H
2	* 5.459	-69.26	Pk	34.5	-29.9	11.2	-53.46	-25	-28.46	0-360	150	H
3	10.04	-73.23	Pk	37.1	-23.8	10.5	-49.43	-25	-24.43	0-360	150	H
4	10.319	-73.6	Pk	37.3	-23.7	10.6	-49.4	-25	-24.4	0-360	150	V
5	5.47	-68.6	Pk	34.5	-29.9	11.1	-52.9	-25	-27.9	0-360	150	V
6	* 8.043	-71.54	Pk	35.7	-26.1	10.8	-51.14	-25	-26.14	0-360	150	V